AMERICAN RIFLEMAN

AUGUST 1942

Mr. Albin E. McNamara,
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Peter Peepsight had a dream

HELLO, CAP'N CROSSHAIRS. LET ME SHOW YOU WHAT I DREAMED LAST NIGHT!
FIRE AWAY, PETER, ME BOY
I SAW MYSELF CLOTHED IN A SUIT OF MEDIEVAL ARMOR. THAT EXTRA WEIGHT IS SWELL FOR CUTTING DOWN BODY SWAY
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WHAT'S NEXT— A DERRICK?
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WONDERFUL! NOW LET'S SEE YOU SHOOT
STILL A MITE WILD, PETER? WHAT **YOU** NEED FOR GOOD SCORES IS THIS MAGIC LITTLE BOX OF .22'S.
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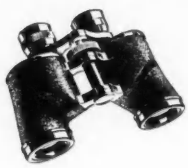

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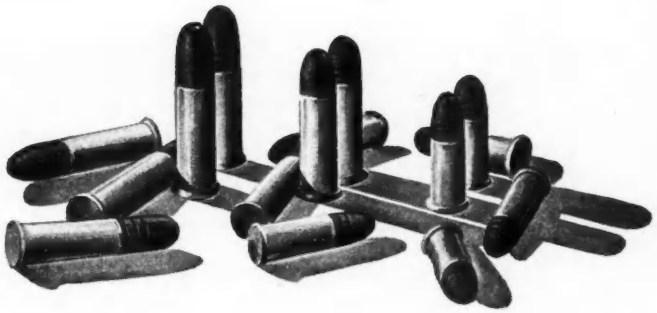

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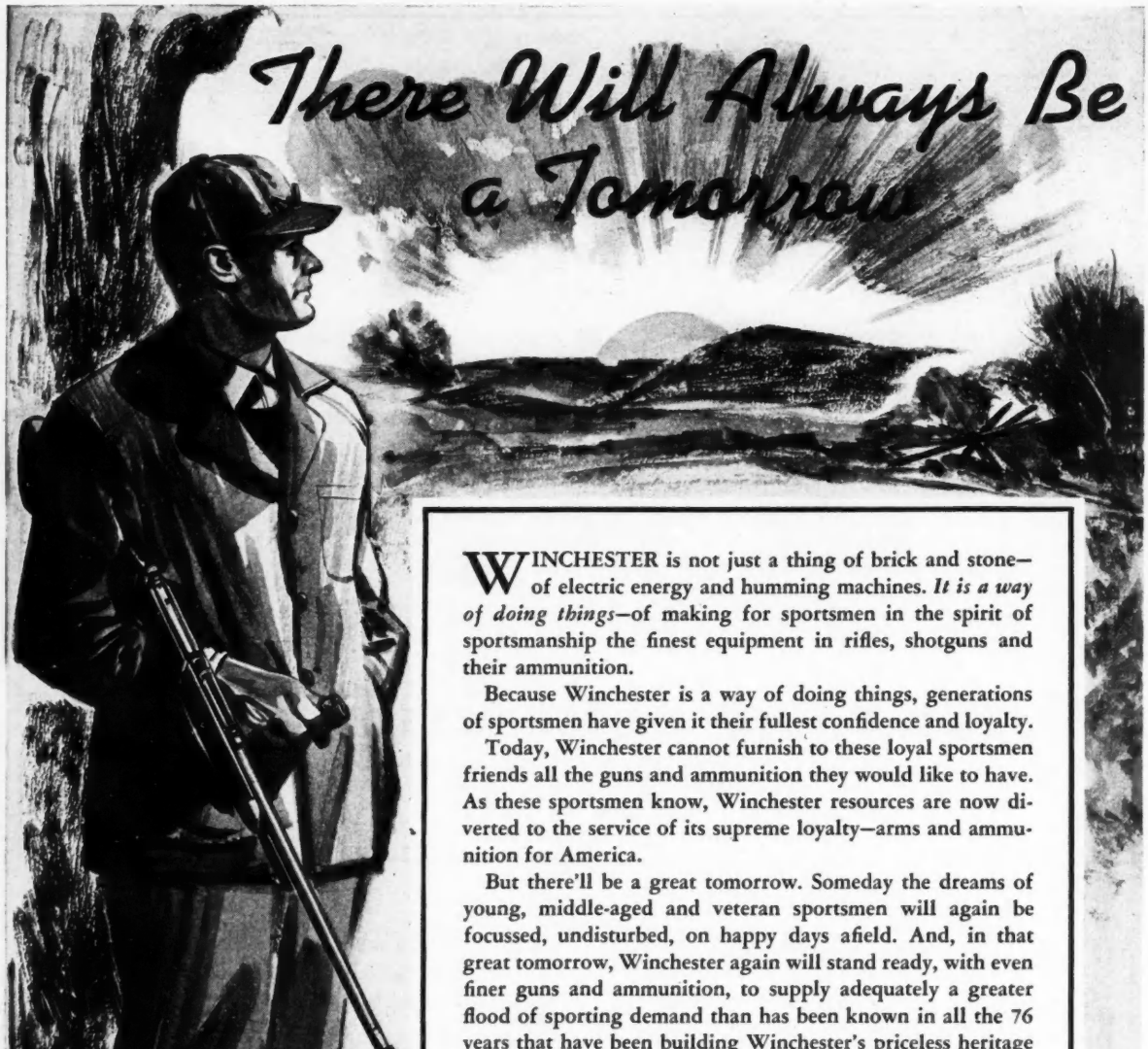

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The AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

THE COVER—Ranse Triggs, 1941 national small bore champ, takes our cover away from the grim business of war for one issue at least with this shot taken during the Eastern rifle and pistol championships at Quantico. Reason: Triggs showed his usual winning style of the last couple of years, walked off with three out of three aggregates to add the Eastern small bore title to the national crown he already holds. For more pictures and the story of the matches, turn to page 16. Photo by Scofield.

THIS MONTH

"SHORTY HORSE" is one of the outstanding stories, in our humble opinion, from the many writings of Major Charles Askins. Printed first in THE RIFLEMAN, September, 1926, we feel we need offer no apologies in its reprint here for the pure enjoyment it brought us, and we're sure will bring you, in its re-reading.

"THE VETERAN," a story of the gun that made good in a larger sense than any other military rifle, comes from the same author who gave us the two part article on German ordnance, "By Flame and Steel." Ludwig Olson, whose knowledge of German arms belies his age, explains the many modifications of the basic Mauser as it found its way into the ordnance of more nations than any other rifle.

"A CASE FOR THE MINUTE MEN" is the Lt. Joe McCann piece we announced previously. A fictitious, imaginary event, it nevertheless is based on plans which have been recently uncovered. We asked for this story as a means of putting into action our concept of the "Minute Men". It follows closely the outline of the new NRA booklet on Home Guard organization in the light of any possible emergency.

NEXT MONTH

"WORKING TELESCOPTICS" is the sequel to the article in the June RIFLEMAN by George Parizek. So many favorable comments have come to us on the earlier article that we hasten this second one into print to supplement the first.

"WESTERN HUNTING RANGES" is one of several hunting stories lined up for September. The author, J. W. Spencer, connected with the U. S. Forest Service station at Denver, Colorado, is a newcomer to RIFLEMAN columns but his experience in the game fields of the West is by no means newly found.

VOLUME 90 NUMBER 8

AUGUST, 1942

"Shorty Horse" 6
BY CHARLES ASKINS

The Veteran, Part I 8
BY LUDWIG OLSON

Dear Mother and Dad— 11
AN EDITORIAL

A Case for the Minute Men, Part I 12
BY LT. JOE MCCANN

500 "Leathernecks" 16
BY RAYMOND STAN

Deer Hunting Begins at Home 19
BY WILLIAM M. NEWSOM

New Telescope Sights 21
BY F. C. NESS

Once a Bandido 24
BY C. H. BRONSON

The First .22 High Powers 26
BY N. H. ROBERTS

Rifle Training Manual 30

Six Guns and Chuck Guns 34
BY GERALD AVERILL

Any Alibis 36

The Old Coach 37

Powder Smoke 39

The Dope Bag 44

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"SHORTY" HORSE

"A man outgrows human kind, if he lives long enough"

By Charles Askins

I BURIED MY HUNTING HORSE the other day. He died of lockjaw or tetanus—a slow death and painful. I had to watch the progress of the disease, knowing the end from the beginning. The horse didn't know, and he came up to me for his feed within a half hour of the time he died. I fed him wet cornmeal from my hand because he couldn't get his mouth open, though he could chew a little, once food was put into his mouth.

We called him Shorty Horse because he was compactly built, and no more than fifteen hands tall. He was partly of Arab blood and looked like an old-time picture of a Berber stallion, powerful loin and quarters, arched neck, small head and ears, large eyes. He weighed no more than a thousand pounds, but was a weight carrier. I weigh 190 pounds, his saddle 40 and gun and scabbard about 10. Shorty never seemed to mind.

Shorty was a gaited horse, pace, single-foot, fox trot, and running walk. His ordinary gait, if given his way, was five to six miles an hour, and he would keep that up all day and come in keen for his supper. I once rode him five hundred miles in ten days, and he looked perfectly capable of continuing the trip, though the horse that accompanied him was no longer eating all his feed. The little horse had pluck, endurance, and a great constitution. He carried a man with cat-footed ease; never a jolt in any of his gaits, and he wasn't afraid of anything whatever.

Shorty carried me out on every shooting trip that I have made this last five years. Usually I worked in the forenoon, and Shorty and I went hunting in the afternoon. Shorty Horse enjoyed these trips, and they kept me from finding out that I was getting to be an old man. I imagined that Shorty and I were going to last just about the same length of time. He was nine years old when he died, and I was close to fifty years older. Looking forward, it seemed to me that as time passed the old horse would slow up, and the old man might slow up, too, and both be content with a very gentle amble. Shorty spoiled all this, but it was no fault of his. He stayed with me to the end of his time, and I buried him, like a Christian and a gentleman.

I used Shorty in hunting deer, prairie chickens, quail, geese, ducks and snipe. He knew the game of shooting better than he did anything else whatever. The shooting was nearly as much to him as it was to myself, or the white setter dog. According to the best of his knowledge, the one mission of a horse was to carry his master out where there was something to shoot. So day after day, all through the season, for five years, we ambled off to the jack-oak woods for quail, or to the river when the mallards were flying.

I shot off his back, on occasion, and when I dismounted, if no fences intervened, he followed about at heel like a trained retriever. It was never necessary to tie him, unless some one was with me who might be careless enough to sprinkle him with shot, and so make him afraid of the gun. When a bevy broke he knew it would be shot at, and stood rigid, carefully turning his head so that the gun would not ring in his ears. In deer hunting he often winded the beasts, and when he pricked his ears and began to stare toward some place in the woods, I knew what to expect.

The whole process of shooting and killing game was perfectly known to Shorty Horse. But what he couldn't understand was the meaning of target practice with a rifle. The rifle range was located in his pasture, and at the first crack of the gun, Shorty would come to see what was up. He invariably came to the firing point and stood looking on; then when I went down to inspect the target he went with me. Finally, I'd have to tie him up to keep him out of the way, for he wouldn't leave. I shot 42 crows and 14 hawks from the back of Shorty during the last year, for the birds were not afraid of a man on horseback, and Shorty would stop motionless the instant the gun started to rise.

Even now, though I rarely forget that Shorty is under

ground and cannot come, when I have fired a rifle, my first impulse is to look up to see if he isn't coming over the rise. A gunshot was his signal that I wanted him, perhaps for a ride or to be fed, and he never failed to obey it. A sharp pang always hits me when I remember that the old boy can never come to me again for I buried him myself as the last thing I could do for him, digging his grave four feet deep, by five wide, by eight long. Then I wrapped his head in some old target papers, so that the dirt couldn't get into his ears and eyes, raised his head and pillowed it, straightened out his stiffened legs, put yet other targets over the body and shoveled in the dirt. It took me all day to dig his grave and cover him up. When it was all over I fired two shots above the grave from one of the guns he used to carry, and told him goodbye. But I still forget, now and then, as an old man will, and look up to see if he isn't coming over the hill to meet me.

It is all foolish, of course, for he was only a horse. But he was a good horse, wise and faithful, and loyal throughout all his life. In his last days, racked with pain, he would come up to me and forget it all when I put my arm over his neck or stroked his head, and I would tell him what a good horse he had been, and tell him how very sorry I was that his old master had none of that Omnipotent power which he thought was mine. Shorty thought there wasn't anything in the world that I couldn't do, you see.

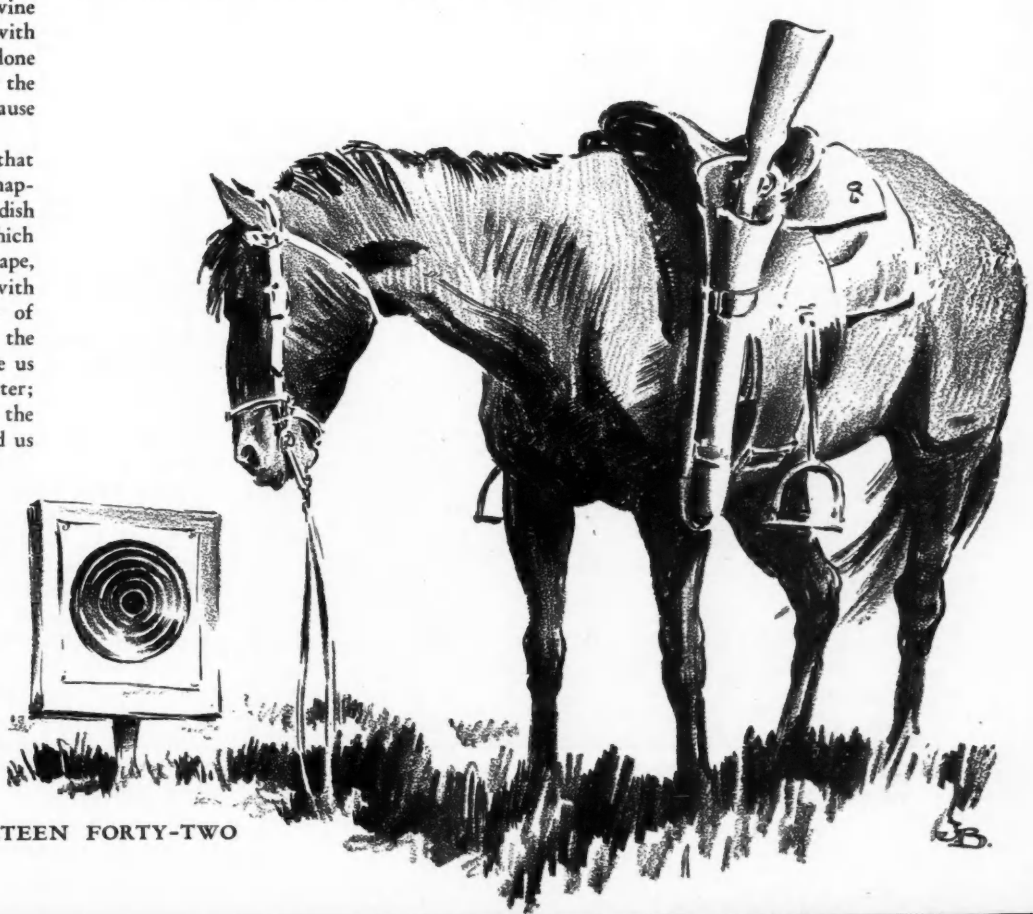
A man outgrows human kind, so it seems to me, both men and women, if he lives long enough. Be it much or little, they have taught him all that they will ever teach. It is all an old story, and he knows the beginning and he knows the end, with nothing of mystery between. This is not the fault of people; it is his own fault; but of it all he is weary; the wine of life has staled with age. But death alone changes the horse or the dog. I know because my horse is dead.

It is in my mind that life is divided into chapters. We have childish immaturity, from which we all wished to escape, yet look back upon with longing; the pride of adolescence, when the world was all before us and we were its master; maturity and love; the little boy who called us dad, and thought we were greater than God; life's fight and the depth of ambition; and at last the easy path that takes us into the oak woods—maybe accompanied only by a horse and a dog and a gun. One chapter follows another, and when one is closed it is never opened again. Of all the chapters, the last five years with Shorty Horse and the white dog were as good as any, so it seems to me. But the horse is dead, and that chapter, too, is ended. In the words of William Black, Shorty, old man, we will never go into the woods together again—never again in all the days that are to come.

I suppose that, however lightly a horse slept in life, that he sleeps very soundly in death. I suppose that he hears neither the soft patter of the rain nor the roar of the blizzard, neither the gentle call of Bob White, nor the vengeful crack of the high-powered rifle. But I buried Shorty down on the rifle range, where the bullets will sing to him as they pass his grave. I suppose that he will never hear. I could fairly wish that it were otherwise. All of us fear the ghosts of our dead; if we could see them in the dark we would flee in terror. But I'd be glad to know that the spirit of Shorty Horse could wander about over the earth.

I know that when the leaves were brown and the quail hidden in the depths of the jack-oak woods, he would come at the first crack of my gun, and, all unseen, follow me patiently about through forest and field, as in days of old. I'd be glad to believe, when hunting all alone, that about, though unseen, ranged all the good dogs that I have known and lost, while back of me, stepping daintily, stopping when I stopped, careful not to get in the way of the speeding shot, came Shorty Horse.

Maybe sometimes I'll imagine that I hear him, the soft padding of his feet, the swish of saddle leather, and the slap as a stirrup caught his side after scraping a tree. People might not like me or they might be busy with others, but if they could, all unseen, my dead horses and my dead dogs would be with me. Goodbye, Old Shorty Horse. Goodbye.



The VETERAN

71 Years in Battle

PART I

By Ludwig Olson

THE LIFE STORY OF PAUL MAUSER is almost as paradoxical as the history of the country in which he lived. Having spent the first part of his life in an era of peace before wild dreams of world power obsessed German leaders, it seems very peculiar that Mauser was deeply interested in implements of destruction even in his youth. His native surroundings in the quaint tranquillity of peaceful old Württemberg surely couldn't have served as an incentive for such interests. Perhaps Mauser became a gun bug for the same mysterious reason that causes many other men throughout the world to have a manifest interest in weapons.

Many conflicting facts have been published concerning Paul Mauser's inventions. This is especially true of detailed specifications of his high-power military rifles and dates of their adoption by various nations. Information presented in this article is correct according to authoritative volumes by General Richard Wille of Germany and other authentic sources of information.

Mauser's 1871 model single-shot rifle was the first metallic cartridge breech-loading rifle adopted by the German army. It was a successful bolt action weapon but showed no outstanding improvements over other rifles of that period. In 1884 the 1871 Mauser was altered into a repeater and became known as the 1871/84. To effect this modification the Henry-type tubular magazine was placed beneath the barrel, and the large 11.15 x 60-mm. rimmed cartridges were moved from magazine to chamber-level by a pivoting carrier.

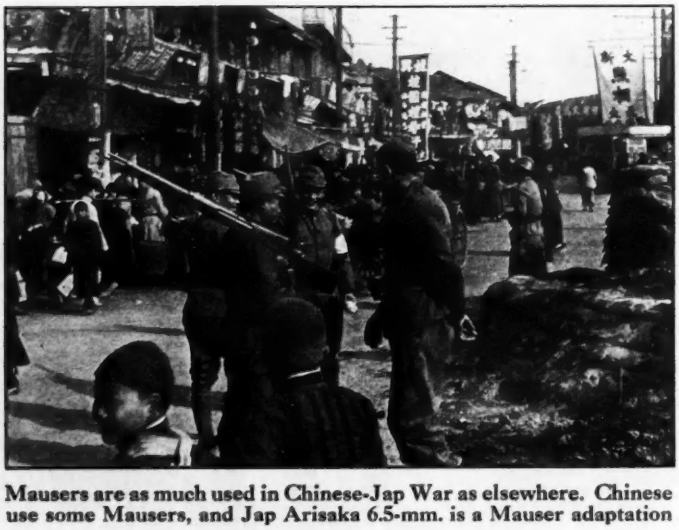
When the major nations started adopting magazine rifles of comparatively small caliber during the last two decades of the nineteenth century, Germany adopted the Mannlicher magazine rifle and carbine in 1888. This 7.9 x 57-mm. caliber weapon was invented by Ferdinand von Mannlicher of Austria. Contrary to popular opinion, Mauser had very little to do with the design of this rifle or its modern rimless-type ammunition.

Most firearms enthusiasts do not know that after 1893 the model 1888 Mannlicher was also produced in caliber 7 x 57-mm. This weapon is identical in every respect to the model '88 in caliber 7.9 x 57-mm. except for its smaller caliber. German government contractors such as C. G. Haenel and C. Schilling of Suhl took such pride in their fine production of the '88 design that they continued its manufacture to a limited extent long after the superior Mauser '98 came to the fore.

Mauser's first invention of any real importance was the Belgian model 1889 rifle and carbine in caliber 7.65 x 53-mm. In this 1889 Belgian design are characteristic Mauser features of a one-piece bolt with double locking lugs of the bolt head, and a magazine loaded with five round trip clips. The American Lee vertical type, single column box magazine is used on the Belgian 1889 and the other early model Mauser rifles. Turkey adopted this same rifle for its army in 1890.

Improvements of a non-rotating extractor and guide rib to facilitate bolt manipulation were new Mauser developments in 1891. Rifles thus improved were adopted by Argentina, Paraguay, Bolivia, Peru and Ecuador. These rifles are all of cal. 7.65-mm. and have the same general appearance as earlier Belgian and Turkish models. The peculiar bolt guide rib on these early model South American Mausers is a longitudinal strip of metal protruding from the inside of the left receiver wall. The ejector cut in the left bolt lug follows this guide so that the bolt is less liable to cramp during its manipulation.

European



Mausers are as much used in Chinese-Jap War as elsewhere. Chinese use some Mausers, and Jap Arisaka 6.5-mm. is a Mauser adaptation

A new Mauser rifle of smaller bore was adopted by Spain in 1893. Its 7 x 57-mm. caliber has enjoyed great popularity the world over since its introduction. Outside of caliber, its chief departure from early Mauser design is a double column box magazine flush with the bottom of the stock. This is a much more compact and superior arrangement as compared to older Lee type single column, protruding box magazines. China also adopted the model 1893 7-mm. for its army. Mannlicher and other rifles have been used in quantity by China, but all as substitute standards.

Realizing the importance of keeping up with latest developments in military armament, Turkey adopted an improved Mauser rifle in 1895. The 7.65 x 53-mm. caliber was not changed, but all breech action improvements up to 1895 were included in its design. In addition, a magazine cutoff was added. Soon after its adoption, the cutoff idea proved to be undesirable. In theory it sounded fine, but in practice the soldier too often found the cutoff set in an opposite position to that intended.

Sweden adopted the Mauser rifle design in 1896. This is the first Mauser to have a thumb groove cut into the left receiver wall. This thumb groove greatly facilitates magazine loading, especially for a left-handed person or when gloves are worn. Unlike many small countries, Sweden and Belgium are both skilled manufacturers. Both produce their Mauser-design rifles to high quality standards. The Swedish 1896 Mauser handles a Swedish designed 6.5 x 55-mm. cartridge. Accuracy of this rifle and cartridge is quite excellent.

By 1897 the Mauser rifle had reached such a state of perfection that Germany finally decided to adopt it as replacement for the outmoded Model '88 Mannlicher.

After lengthy trial the German arms commission finally adopted Mauser's 1898 rifle design in cal. 7.9 x 57-mm. The '98 model breech action is still being manufactured, and has remained very popular since its introduction. It still is the very best breech action design for manually operated military rifles, and when produced in sporting style is also excellent for the foundation of a fine hunting or target arm. No other rifle action has been accepted with such world-wide popularity. Its design is truly a mechanical masterpiece.

In the science of mechanics there is a certain set number and arrangement of levers, cams, lugs, studs and other standard mechanical devices which provide maximum efficiency when properly fitted into the mechanical setup according to circumstances presented. The splendid basic design of the '98 action in conjunction with many of its exceedingly clever mechanical features displays strong evidence of Paul Mauser's inventive genius and his Teutonic thoroughness.

Clever detailed design features of the '98 action are the undercut extractor, obturating bolt head, safety firing pin, easily disassembled bolt sleeve and many others.

The undercut extractor idea consists of dovetail undercuts on the forward surfaces of the extractor tongue and bolt groove so as to cause interlocking of bolt and extractor. This prevents the extractor from slipping sideways over the cartridge rim during difficult extraction. The extractor is pushed approximately 1/32 of an inch rearward by contracting a cartridge rim when the bolt is closed on a chambered cartridge. This allows the extractor tongue to disengage from its bolt groove so that an extractor hook can move sideways over the cartridge rim.

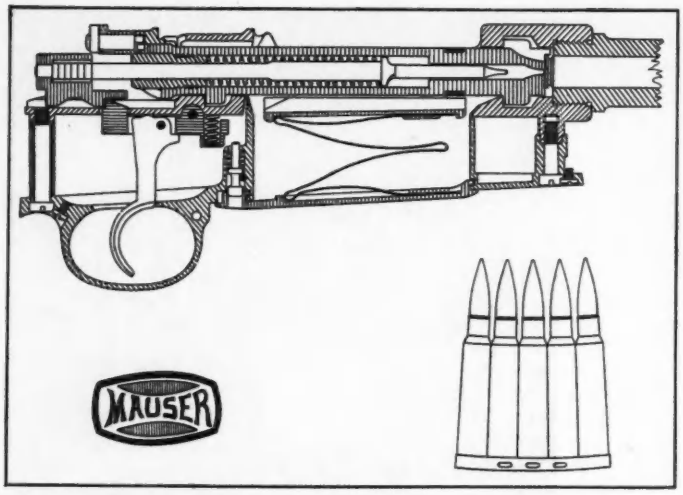
European

The Mexican soldiers (above), riding atop freight cars in typical South of the Border fashion, are armed with Mexican Mauser rifles of 7-mm. caliber. German infantrymen (lower) demonstrated attack methods from wagons in before-the war maneuvers, while secretly building armored cars for the same purpose. Their rifles are a modernized version of the 1898 Mauser

To prevent any great quantity of high pressure gas from blowing dangerously rearward through the action in the event of a punctured primer or ruptured cartridge case, the '98 bolt is made of obturating design by having its cylindrical forward portion fit snugly into a groove inside the receiver ring. This arrangement is not entirely satisfactory with blunt, soft point bullets because the necessarily flat rear end of the barrel does not serve as a funnel type cartridge guide.

In addition to its great advantage of being in one piece, the '98 firing pin has double projecting studs on the forward portion of its mainspring flange. These studs come opposite shoulders within the bolt-well when the bolt is rotated to unlocked position. This serves to lock the firing pin back out of possible contact with a cartridge primer.

Rugged simplicity of the Mauser '98 bolt sleeve lock and safety design are very valuable military rifle features.



Sectional view of representative Mauser action

Unusual in a bolt action design is the fact that these parts of the bolt sleeve assembly are easily dismounted and reassembled without tools. Also desirable on a military rifle are the '98 model's locking screws which lock guard screws from rotation. The Mauser's positive straight plunger magazine floor-plate catch is also very desirable, and superior to any other for a military rifle.

Because of its obturating bolt head and for other reasons, the Mauser '98 design offers the most complete breech action safety to shooters armed with bolt action type rifles. The receiver ring is without weakening gas escape holes and also is made of extra large diameter to prevent its expanding under excessive pressure. The bolt locking lugs are situated slightly further back on the bolt body than in the case of modified Mauser rifles. This additional metal between rear of bolt lugs and face of bolt causes slightly greater locking strength. Interfitting surfaces of bolt sleeve and rear portion of firing pin have corresponding flat surfaces. These flat surfaces terminating part way up the firing pin body result in shoulders which prevent blowing of the firing pin dangerously rearward into the shooter's face during the unlikely event of enough escaping gas to cause this. For a like reason the bolt sleeve is fastened to the bolt by a peculiar-looking buttress thread of maximum strength. Should gas pressure escape from a defective primer or cartridge into the bolt well, it will most likely be abducted through two large rectangular ports in the side of the bolt body. The large front end of the bolt sleeve serves as a face shield to prevent gas from blowing rearward into the shooter's face.

To facilitate cocking, the '98 bolt cocking cam is cut on an enlarged rear portion of the bolt body. This causes the cocking cam to turn on a larger radius so that the action is quite easily cocked even though the cocking cam does not have the smooth finish of peace-time production. When the bolt is retracted it has a large amount of sideward play. This is due to clearance cuts for the enlarged rear portion of the bolt causing a very short bolt bearing in the receiver. Bolt play of this sort causes no loss in practical efficiency and is not particularly objectionable on a military rifle, but causes much unfavorable comment from cranky gun connoisseurs. To prevent bolt play and still have an easy cocking action, Mauser could have lengthened his receiver to get additional bolt bearing, but sidewise bolt play when the bolt is retracted does not materially affect efficiency, and lengthening of the receiver would prevent the desired maximum compactness.

A slightly modified Mauser '98 model was developed in 1904. This 1904 action is identical to the 1898 with exception of two minor features. The '04 has a longer, heavier cocking piece which increases the strength of firing pin blow and minimizes ignition faults. Locking screws which prevent front and rear guard screws from rotation are not included in the 1904 model.

Many nations are equipped with rifles having slightly modified Mauser '98 or '04 model actions. Chile, Colombia, Brazil, Uruguay, Mexico and Serbia all adopted such rifles in 7 x 57-mm. caliber during the period from 1900 to the first World War. Argentina and Turkey adopted the '98 model rifle in cal. 7.65 x 53-mm. during the same period. Portugal adopted a more peculiar Mauser rifle and cartridge in 1904. It is known as the Mauser-Vergueiro model in cal. 6.5 x 58-

PRIVY COUNCILLOR DR. ENGINEER PAUL VON MAUSER

mm. After World War I Poland, Belgium and Czechoslovakia adopted the '98 Mauser in cal. 7.9 x 57-mm., and Turkey finally decided to use the 7.9-mm. also. Jugoslavia followed the ideas of the dissolved Serbian government, and the Mauser in cal. 7-mm. was adopted.

There are numerous rifles of modified Mauser design manufactured by industrial nations such as the United States, Great Britain, Italy and Japan. These rifles all employ basic Mauser principles of strip clip magazine

(*Continued on page 25*)

An Editorial

DEAR MOM AND DAD—

Things have quieted down a bit so I can find time to sit here with my back against a tree and drop you a line. I am well and eating plenty, even though I can't order just what I'd like to have when I push my mess kit over the counter. The Nips have been pretty busy lately and some of the fellows who have been with me ever since we left the Induction Center won't be coming back when I come. But that's the war. You get used to it after a bit and figure that if your number is up there's nothing you can do about it. If it isn't up you're O. K. anyhow. After all there are lots worse ways to go out—like getting smashed up joy-riding when you aren't doing anything worth-while for anybody. It's funny, Dad, how unimportant and useless a lot of things now seem that used to seem so important. Things like getting a raise so I could buy a radio to carry to the beach when we already had one radio in the car and one at the house—or getting mad at you because you made me ride the bus to school instead of letting me take the car like some of the other fellows.

Frankly, though, Dad, I wonder if we are putting up little white crosses in all the God-forsaken corners of the world for nothing. More and more the fellows are getting mad about this "politics as usual" stuff back home. We get a batch of papers now and then and you ought to hear the boys sound off! Somebody said the other day: "It looks like the politicians think this war can be held up until they get themselves re-elected next Fall." We read this stuff about the "farm bloc" demanding higher prices for the farmer and then we see that the farmers have the highest income they've ever had. Then the "labor bloc" demands higher wages because the cost of living went up after they got their last raise. Individuals with a big income split up between husband and wife don't want to pool their income on one tax blank because they'd have to pay more taxes. There's a lot of stuff about maintaining "social gains" and "standards of living." Hell, there won't be any "social gains" if we lose this war or end it bankrupted by inflation! And as for standards of living—what "standards"? We're doing the fighting and our "standards of living" consist of trying to keep alive by eating what we can get, sleeping where we can sleep and wearing what we happen to have with us when orders come to move on. Why shouldn't these bozos who run no chance of getting hurt have *less* to eat and wear than we do? Talk about maintaining civilian morale! How about maintaining the morale of the guys who are getting shot at! I know from the letters that the fellows get that the American *people* are pretty well fed up on those self-anointed "leaders" who are putting their own jobs and selfish interests ahead of the business of getting on with this war.

What we can't understand is why the folks back home don't *do* something about it. Don't you vote any more? Lord knows the British haven't shown much in the way of military leadership but they do have *one* thing—they can criticize their leaders, demand an accounting and still go on with the war as a unified nation! In this man's Army we have discipline—and how! But we're trained to think for ourselves and we're allowed to make suggestions and we aren't called sixth columnists when we use our own method of trimming some newly made non-com down to his proper size!

When I took off, Dad, you said you wished *you* could come in my place. You meant it, too. Well, maybe it will take more real guts for some of you to fight your battle of ballots than it takes for us to fight our battles with bullets. But you wanted to fight for America.

Get in there and fight, Dad—and you, too, Mom. Put some real leaders, some real representatives of the real people, into the place of that little group who seem to think that this war is just a grand opportunity for everybody except the guys who have to fight the Nips and Jerrys and the ones who *really* farm and labor.

Don't worry about me. I'm coming back. I feel it in my bones. But when I come back I hope to find statesmen running the country, men I can respect as I respect my officers out here—and for the same reason—unselfish devotion to the nation and the guts to fight for it regardless of what happens to them as individuals.

Don't worry about me. Must sign off now. We just got the alert.

Love, JIM.

1945: ANOTHER "IT MIGHT HAPPEN HERE"—AN INVASION OF THE UNITED STATES VIA OUR GULF COAST

A CASE *for the* MINUTE MEN

By Lieutenant Joe McCann

SHERIFF WHITLEY? HOWDY, SHERIFF. I'm Lieutenant Joseph I. McCann. Oh, you got that letter from the A. G.? Fine. Then you know why I'm here. How's that? The lieutenant in front of my name? Well, you can't keep a good man down, y'know. I got my bars in India about six months ago, during the Cawnpore offensive. I was just plain Sergeant Joe McCann then.

The extra leg here? Say, it's a beaut, ain't it? Solid mahogany, gold head. They would have got it in copper, it being more expensive than gold these days, if there had been any to get. Lookit right there, where the engraving is: "To Second Lieutenant Joseph I. McCann, from his men of the 2d Platoon, 519th Parachute Regiment, in appreciation of his inspiring leadership in the action at Jodhpur, Dec. 4, 1944." Yeah, that's where I got my right puppy cracked up. Nasty wind that dawning, I can tell you. And my parachute blew four panels and set me doon with a boomp. If it hadn't been for—but anyway, I got up, with the old ankle hurtin' like fire, and took my men over against the rear of the Japs' left-flank machine gun company. . . . Sure, the 109th Division was the gang that whipped 'em that day, with plenty of help from some hand-picked six-footers out of Chiang's 23rd Route Army. But it was my platoon that started the Jippo's left flank to crumbling. I'll show you on a map sometime—

Nazi Plan to Attack U. S. Through Mexico Revealed

Mexico City, July 13 (AP).—A former Mexican military attache to Berlin said in a published interview today that Germany had planned to land an invasion force in Tampico to attack the United States and had offered Mexico "territorial compensations" for its support.

The plans were completed during the invasion of Poland, two years before the United States entered the war, Lieut. Col. Armando Lozano Bernal said.

The colonel said the German plan was discussed with him and that the Nazis envisioned taking over the Mexican Gulf coast port in the oil region and using it as a base against the United States.

Bernal said his unsympathetic answers to inquiries caused the Germans to cut short their efforts to win him over.

He said the Mexican Government was fully advised of the German overtures.

Who? . . . Section Leader Brent? Howdy, Brent. Glad to know you. Say, you're a hefty lookin' guy, ain't you? Bet you could pack a water-cooled machine gun as easy as a pistol. And wearin' a pistol expert's badge, too! I see I'm going to feel at home around here. I was just tellin' the sheriff here how I got this game leg. I won't bore you with a rehash. But anyway, Sheriff, I toddled about until our mission was accomplished, and then like a damn sissy I fainted dead away. When I came to, I was in a field hospital with a volunteer Hindu nurse-girl fanning the flies off me, and a cast on my fin as big and heavy as a one-pounder caisson. . . . No, I'll never be able to jump again, I'm afraid; not even hike. I worked in the regimental personnel section for a while, until I got corns on my tail and could tell the difference between a Disability Discharge and a Clothing Issue at twenty paces. Then the medicos said, "McCann, your leg will never heal out here in this hell-hole. Pack your duds, boy; it's back to the States for you."

Well, I can't say honest Injun that I hated to come home, but I did have a few more tricks left in my old sock to pull on the Japs. I puttered around the Parachute School at Fort Benning for a few weeks, but they decided it didn't look too sensible for a cripple to be trying to teach other guys how to jump without getting hurt. Then the Japs pulled that fast one in southern Mexico, and before we realized anything they had five or six divisions landed and tucked away back in the jungles, with enough supplies for six or eight months of operations. And those two Nazi cruisers turned up in the harbor at Martinique, jampacked with sauerkraut Marines. Maybe they've made other landings to the South, too, that Washington isn't letting on about.

Anyway, right there I got the idea that I could do more good than where I was if the War Department would send me around to visit the Minute Men along the Gulf coast—y'know, inspect their plans and defense areas, lecture on tactics, offer suggestions as an old battle-scarred veteran of 26 summers, and such stuff. I was getting on everybody's nerves with my constant chatter about the relief of Istanbul and our escape from Madagascar anyway. So they said, "Swell idea, McCann. Start tomorrow if not tonight, and make your first visit to Davis county." And here I am.

This may become a most important strategic spot here, too. I studied a map coming down on the train. That new highway that runs down Mexico's Gulf coast-line bypasses us through the next county, Lawrence, and the first all-weather coast road that feeds it as you come up from the border is Highway 41, running right through us here in Jeffersonville. This will certainly be a hot spot if there is any action along the Rio Grande. . . .

How do I figure that? Well, Sheriff, I'll tell you. If you'll arrange to get the high school auditorium or your

superior courtroom for an hour or so, and will bring in all the Minute Men of your command for a little discussion, I'll present a detailed analysis of the local military situation and potentialities as I see them. Also, I'll get a chance to meet all your section leaders and the other officers of your local shooting club. I'm itching to talk to somebody who has gone to Camp Perry. . . .

When? *Next* Tuesday? Hell no! This afternoon if possible; tomorrow at the latest. You won't have to rustle up bail to get some of your guys out of the clink, will you? And anyway, ain't you the sheriff around here? Hell of a note if the Japs were coming and it took you till Chewsday to get everybody together, huh? . . . Baseball game? Well, that comes as close as anything I can think of to justifying a little delay, but it's not quite enough, Sheriff. Those Japanzys down Mexico way aren't holding anything up for the sake of a couple of rubbers of contract.

And in the meantime—Brent, got your car? Fine. Running right along on those new composition tires, I guess. Well, while the sheriff rounds up his posse I want you to drive me down to the coast on Highway 41 for what the dear old Infantry School manuals call a "personal reconnaissance."

* * *

Thanks for the high-class knockdown, Sheriff. And good evening, gentlemen! Sheriff Whitley has told you why he dragged you in here so unexpectedly. I'll take all the blame for that. I wanted to have as many of the armed men of this county here tonight as possible, because if I'm guessing right we have only a few days of grace before Jippo the Jap will be trying to punch his way into the U. S. proper across the Rio Grande, and when that happens you're all likely to see some action. I promise you that it'll be fun, but I can't insult your intelligence by promising that none of you will get hurt. A few of us will be battered up right smart, which is just one of the things we have to face when we're fighting for our homes, families, and human rights.

"If you get the call for action, don't fail to put on uniform. Otherwise, you may get shot as a guerilla."

In the Army, a good commander always makes sure before going into any action that every officer and every

"If one of you men happens to capture an individual Jap soldier, watch him like you would a strange rattlesnake."

man in his command understands as fully as he does himself what the general situation is, and what special situations have to do with him. I don't believe there's any chance at all that you will be called on to fight the enemy outside Davis county, so if we can all understand the military significance of our little chunk of territory we'll be a long step nearer to preparation for any action that develops in it. I have drawn a rough map here on the black board, on which I wish to point out to you certain strategic considerations. Please watch my pointer. . . .

Here is the Gulf coast-line; here is Jeffersonville; along here is Highway 41 from Crumpton Beach through Jeffersonville and on to join the Good Neighbor Highway 20 miles to the north at Lawrenceville. Crumpton Beach runs from Jackass Point about three miles east across the edge of Davis county and for about 800 yards into Blunt county. Sheriff Whitley tells me that the beach in Blunt county is well organized and planned for defense, and that they've tied in with his own Davis county defense plan.

To the southeast here, about a hundred miles away, is the Mexican border, marked by the Rio Grande running along there. Behind this natural defense line is deployed at least two U. S. infantry divisions, a brigade or so of Canadian cavalry, some Australian engineers, and a considerable chunk of our new Steeplechase Tank Corps in theater reserve. What we have further west, on the other side of the mountains, I don't know. Even if I did it wouldn't do any good to give the details of it here, because it's only the forces on this side of the mountains whose actions would directly affect our own situation.

Notice that the Crumpton Beach road is the first one this side of the border which is a possible military route going up to and across the Good Neighbor Pike and offering access to the rear areas of our line of soldiers along the border. It wouldn't take a Jap division more than a few hours to gain the coast about there, from the jungles over there where they are organizing their campaign, and with their new amphibian barges they could take to the water well below the mouth of the Rio Grande and hug the shore all the way up here to evade the few destroyers we have left now in the Gulf.

If there were nothing to hinder them, they could land by stealth at Crumpton Beach and pull a tour-de-force up the rear of our border defenses. And even if our sea forces on the Mexican coast could hold such an expedition on shore, there is a force of Germans on Martinique now, large enough to do a lot of damage in our rear if it could make the same entry. They are sure to be in contact by radio with the Japs in the Mexican jungles, and it would be just like them to start both expeditions at once, so that either one would occupy our sea forces while the other moved in unchallenged.

Doubtless there is a question in your mind: Why don't our forces drive into Mexico before the Japs get organized, and rout 'em out? Well, there's mighty nigh nothing left of the Mexican Army now, as you know, and we would be extending our lines of communication without any local assistance, into an area very favorable for defense, thereby placing ourselves in a tougher spot than we now hold. Our logical defense line is the river —always the easiest line to hold. They have to come out in the open before they can attack us there, and the attack would be very costly. Also, after exposing themselves by moving north of Mexico City, they would be vulnerable to open warfare in northeastern Mexico.

The Jap intelligence staff doubtless knows what is true—that there are no soldiers holding Crumpton Beach. As far as I'm concerned, that's fine. I hope it baits them on. But don't get the idea that I think you four hundred men or so could stand off a division on that shoreline. In the first place, the Japs may only send patrols and raiding parties up this way, and if they do, we'll be able to handle them just like one-two-three. And if it is a large force of all or most arms, we won't commit suicide by trying to hold them up at the edge of the water. We'll harass them into premature deployments and anti-sniper formations and rear-guard actions while one of the tank units in our theater reserve comes barreling down the road through Lawrenceville to chew 'em up.

Other than the possibilities I have just outlined, I don't see how Jeffersonville can possibly become involved in any kind of action. If the Japs don't try it, all we can do is sit tight. But, as I say, I'm guessing that they'll try it, all right.

Now for a few words of general admonition. . . . Got a match, Sheriff? Thanks. . . . Now, if you get the call for action, don't fail to put on your green poplin shirts and forage caps. Otherwise you are not in a recognized military uniform, and if captured you could be treated under international law as a guerilla fighter—in other words, shot at sunrise the same as a spy, or hung. I can't guarantee that the Japs won't shoot you anyway if they capture you, but it's a precaution worth taking, and it also serves as an aid in recognizing your own friendly troops at a distance.

Don't touch any liquor—not even beer—until the situation has developed far enough for us to be sure we won't be touched for a while. Don't go any where that you can't be reached immediately by telephone, and be sure that you leave word at home where you will be. If necessary, write out a schedule and leave it with your wife. Tell her to drop whatever she is doing and track you down if the section leader calls you, and not to be suggesting places for him to try calling. He has other calls to make, other things to do, and a hundred things to think about.

Check your firearms and ammunition every day, also your shoes, canteens, and other vital equipment—especially your car if it is to be used by your section; for Pete's sake don't turn up with a flat tire or a dead battery or an empty gas tank when the chips do down.

If a Jap column starts up the road from the beach, some of you will be certain to capture individual soldiers and small groups who have lost contact with their column's flank patrols. If this happens to you, watch those buggers like you would a strange rattlesnake. I can tell you first-hand that they are full of tricks. See this scar above my ear? Well, anyway, frisk them carefully; make sure to check for knives in shirtsleeves and boots, and other concealed weapons. Don't get close to one unless someone is covering you from a distance. And keep your eye peeled constantly to the rear of the man who is covering you.

Observe the rules of land warfare as strictly as the situation permits you to, even though we all know that the little yellow brethren can't be counted on to do as much when they have the drop on some of our boys. You are at liberty to lock them up, tie their hands and feet, gag them, or anything else necessary to prevent escape or giving the alarm, but nothing more. You are not permitted to take anything of a prisoner's personal property for a souvenir. At least, that's what the book says. I'll show you my own collection for keepsakes sometime. But don't say I told you it was all right to cut the gold whozits off a Japanese corporal's collar. . . . Any weapons or other fighting equipment which you have to take from a prisoner as a precaution must be turned in with the prisoner, as it becomes United States Government property automatically, and may be of great value to the intelligence officers who examine him.

If a captured soldier tries to make a break for it, or resists you after he has surrendered, or refuses to go where you direct him, you are permitted by the rules to plug him. Should you have to do this, be sure you hit a vital spot and make it quick. That's not in the book, but I know you'll feel better about it afterwards if you do an unpleasant but necessary job with as little suffering as possible.

When an enemy soldier signifies surrender by throwing up his hands, thereby leading you to expose yourself by coming forward to disarm him, and then grabs his gun again and shoots at you, he forfeits the right to honorable surrender, and you should ignore any further signs of capitulation. By using the conventional signal of surrender as a trick, he relieves you of any obligation to accept a later offer, and you can let daylight into him with a clear conscience even if his hands are high in the air.

On the other hand, should you find yourself in the same spot, don't wave a white flag or throw up your hands

until you are out of ammunition and cut off from any possible retreat, and the jig is really up. If you do have to surrender, stick to the decision unless the odds look good later for an escape. They won't be able to take you back to their own lines anyway, and when our tanks roll up I'm thinking they'll abandon prisoners and strike out for the tall timber. If you find yourself a prisoner, keep your head. Don't act huffy; do as you're told. If they take you to an interpreter for questioning the only information you are required by the Geneva conventions to give is your name, rank, and serial number. You guys haven't got a serial number (or have you?), so you might as well just make up one to satisfy 'em—five or six digits long, and remember it so that you won't get caught giving a different one if asked again later.

To all other questions your answer is "I don't know." Don't try to do like the heroes in pulp fiction, and cross up the enemy by giving him wrong information. Think a minute, and you'll realize that they might have twenty other prisoners under questioning at that moment, all of them just as anxious as you to toss a monkey wrench into the enemy's intelligence service. Each one will tell a different story, and by comparing them all the enemy G-2 can perceive that none of them is true. If he has enough information which he knows is false, it might eliminate all the possibilities except one, and thus he will be able to arrive at the truth without anybody telling him.

Sheriff Whitley tells me that you have a well-oiled plan for going on the alert and moving into positions on the beach and along the road. The plan reads all right on paper, and it may be just the thing. But I give you my personal check that there are always bugs in any fighting plan until it is tried out, detail by detail, under conditions which are as close to the real thing as you can make 'em. So don't be too surprised if you get dragged out of bed at an outrageous hour sometime soon, and told to report at your section rendezvous immediately, ready for action. And don't say, "Oh, what the hell, it's that crackpot McCann, calling an alert just to see how quick we can get into action. I'm going back to sleep."

It may be just me, all right. I'm quite a wag, I guess. And then again it just might be the Japs. Nobody's going to know except Sheriff Whitley and me. And don't come giving me that old song and dance about the boy who hollered "Wolf!" You have to holler wolf

"Don't say I told you it was all right to cut the gold whozits off a Jap corporal's collar. The book says no."

plenty of times these days to be sure you'll be able to take care of the wolf when he does come. If you have to miss a few hours sleep, just think about your soldiers in China, India, Australia, and all those places who march all night and dig foxholes all day, with nothing to eat except bully beef and hard-tack.

Guess I've kept you long enough. If anybody has a question, hop up here on the platform after the meeting and I'll tell you all I know. Won't take long. Class dismissed. *(To be continued.)*

ORDNANCE QUOTES

¶ *Production:* The President startled the world recently with actual figures on America's war production in May: 4000 airplanes, more than 1500 tanks, 2000 artillery and antitank guns (exclusive of anti-aircraft, more than 50,000 machine guns and 50,000 submachine guns). Production volume cuts unit costs, with another source disclosing an automatic gun costing $1200 18 months ago, was cut $250 in six months, while today's price is 40 per cent lower.

¶ *Tanks:* Ordnance Chief Campbell's July 4 speech did more than any firecrackers. It blew up a mysterious nation-wide wave of rumors attacking the quality of Ordnance equipment at the fronts. General Campbell, drawing on official reports from U. S. and allied observers, cited indisputable fact: Our Ordnance outperforms the enemy's.

Excerpts: "Type for type, our tanks have heavier guns, heavier armament and greater speed (than the enemy's). We have all the enemy's machine weapons and we've made the comparisons. We've captured enemy tanks, both German and Japanese, and have conducted every conceivable engineering test upon them."

Germany's "secret 88-mm. gun" was exposed by General Campbell as a 10-year-old antiaircraft gun, buried in Libya's sand, camouflaged and used as a trap. Also, a group of U. S. observers in 4 M3 tanks destroyed 9 German mediums in action in Egypt. Rome blamed U. S. M3's for blocking Rommel, and a wounded British officer asked a friend, who spoke on around-the-world broadcast, to "Tell America what wonderful tanks they're sending. I want them to know."—From the *Army Ordnance Bulletin* of the Army Ordnance Association, Washington, D. C., July 15, 1942.

500 "Leathernecks"

. . . OUR CIVILIAN SHOOTING STARS LEARN A LESSON FROM FOUR BIG DAYS AT QUANTICO

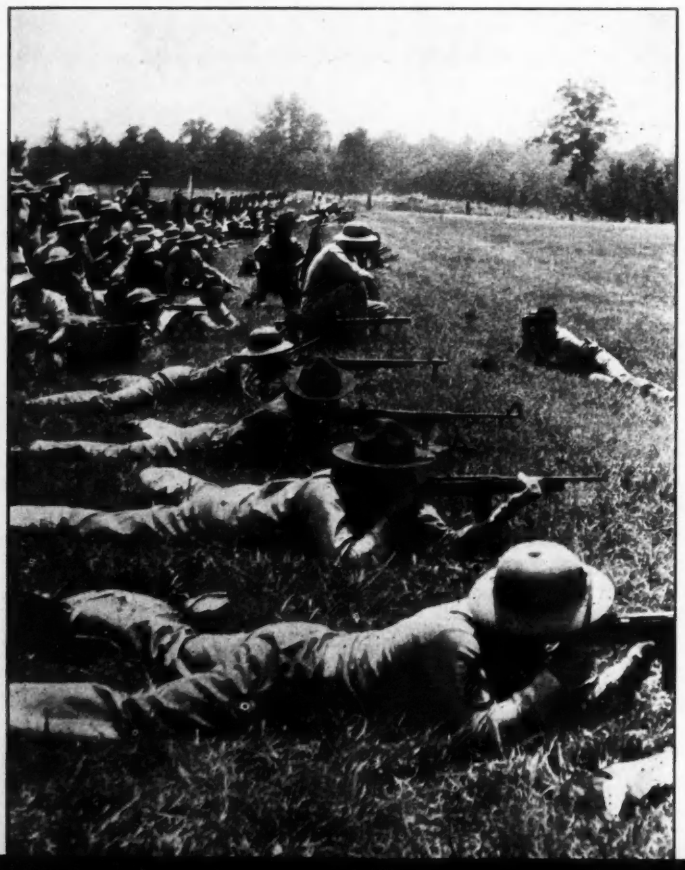
By Raymond Stan

Major George Van Orden, USMC

IT IS EASIER NOW to understand the record of our Marines —the ones who defended Wake for so long and fought with MacArthur on Bataan. It is one of those lessons learned after spending four days as a Marine at Quantico on the Virginia shore of the Potomac.

They were five hundred ordinary civilians, most of them, with only a shooter's background when they got there on the evening of July 1st for what was billed as the U. S. Marine Corps Marksmanship Instructors' School and the 21st Annual Eastern Small Bore Rifle Association's Rifle and Pistol Tournament. But what they actually were in for was eating, sleeping and working with the Leathernecks *as* Leathernecks. So they lived by the Music of the Guard, thrived on Marine chow, solved the intricacies of Navy Time (some of them) which got them up at 0545 and put them to bed at 2300. They dressed in khaki, slept in double-decker beds, were regimented through nearly every move——

Marine marksmen with automatic rifles and machine guns show the effect of small arms fire on matériel targets



They learned what it is like in the Marines; what the Marines can do; how and why they do it. But most of all they learned the Marine Corps method of Marksmanship Instruction, which was precisely why they were there. For despite an attractive competitive program the theme of this four-day shooting mecca remained instruction and instruction methods—studying the mechanics of *teaching* marksmanship.

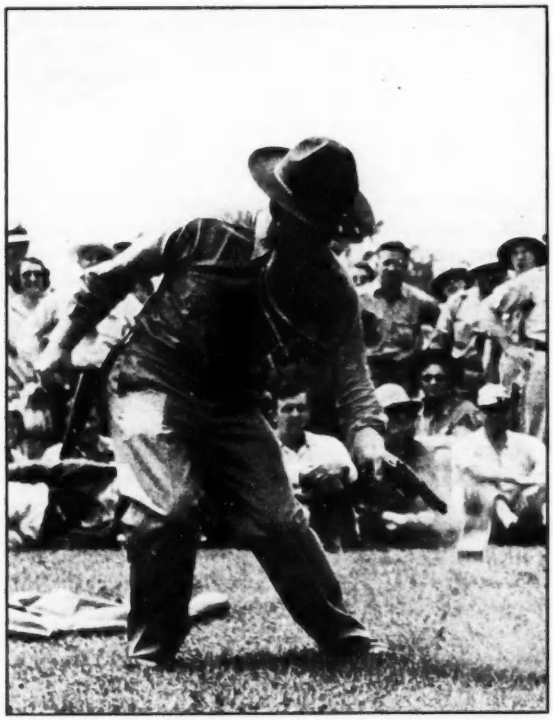
That so much was learned in just two days of school and two days of competition (which was a lesson in itself) should be scored as a tribute to Major George O. Van Orden and the Rifle Range Detachment. It is no mean trick running five hundred assorted rifle and pistolmen through a comprehensive course in only eighteen and a half instruction hours. But George did it——

There wasn't much doubt after the first few minutes of Thursday morning's class that something new had been added to this school. Boiled down that something seemed to be Marine Corps *method*, such as the utilization of carefully prepared visual training aids to accent important points of training. Yet the Major was very sorry, but these constituted no radical departure from accepted methods of small arms instruction nor a short cut to marksmanship ability. It is still necessary, whether you are teaching target shooting or military marksmanship, to drive home the fundamentals which apply to any arm, at any time, under any conditions. But it helps, having a method like the Marines.

The Major, who was getting used to this sort of thing from many years' experience at Quantico, spent the best part of that blistering day on the platform of his new Range Theater lecturing and using his veteran staff to demonstrate. He told the sweltering five hundred (who really were too interested to notice and who crowded into the front seats, which were the hottest) of the connecting links between the competitive shooter and the battle marksman; of the fundamentals of military marksmanship and their application during the progressive phases of target practice.

THE NEW QUANTICO "WALKING TARGET" LAYOUT ACCOMMODATES 30 PISTOLMEN

He dropped the box from the back of his left hand, drew with the same hand, got off his shot in time—but missed. Walter Walsh is the guy and he got it later on



One important phase of the rifle school was mechanical training with M-1's. The students were teamed under the eye of a Marine Instructor to learn why it ticks

In short, he made instructors of those civilian competitive stars, gave them everything from fundamentals to the details of range procedure.

On Friday, while most of the world snoozed on, our five hundred civilian heroes were preparing for one of the busiest days of their lives—First Call at 0545; Reveille at 0550; Mess Call for pistol shooters at 0610, for the riflemen at 0655; School Call at 0730. And a full schedule in front of them until 2200 that night.

They split the class, sending the three hundred riflemen onto the range and the two hundred pistolmen back to the theater. Then they split the three hundred riflemen and ran them through the mill—Mechanical Training with the M1 for the first group; Winter Sighting Drills for the second group; Position, Trigger Squeeze and Rapid Fire Exercises for the third rifle group; Range and Pit Procedures, Marking and Scoring for the fourth. They rotated this procedure the rest of the morning.

The pistol section stayed in one piece, was drilled in the Technique of Pistol Training, the Technique and Mechanics of Arrest, the Search of Persons and Conduct of Raids. Then came the show——

They "layed down" to the pistol range where a familiar little fellow with bars on his shoulders now, name of Capt. Walter R. Walsh, showed them the tricks of practical pistol work, quick draw, hip shooting. Everybody remembered Walter as a hard-shooting G-Man and how he could perform on the range as one of America's five best shots. But this time he showed them something different. Too fast for the quickest eyes Captain Walsh drew from his hip holsters with either hand, riddled silhouette targets, and then told the folks how to do it.

The school combined again at 1300 (1:00 p. m. to you) for a Marine demonstration of the effect of small arms fire on matériel targets before competition got under way with the Military Instructors Matches. Pouring out destruction with .30 caliber carbines, semi-automatic and automatic rifles and light machine guns, a crew of sharpshooting Leathernecks blasted steel silhouettes, brick walls, cement blocks and sandbag emplacements to the edification of the pipsqueak and handgun fans.

Opening the competitive program for the riflemen, one of the many little-known figures on hand, Walter Tomsen of Flushing, N. Y., humbled the field with the only possible in the Instructors Match. Tomsen's 150 was fired on the "A" target at 200 yards, four positions.

Even trickier was the second school match, also 200 yards but using the target "E-Kneeling." With the shooters "ready" the targets were exposed ten times for five seconds each and then withdrawn for ten seconds. It looked like this never would end, with a three-way tie between George Whittington, the visiting Texan, Lawrence Burney, Charlestown, N. H., and Walter Redding of Woodhaven, N. Y., complicating things. They had a shoot-off and Redding, who failed to check his sight readings, was eliminated with ten misses while the other two remainded deadlocked with 47's. So they had another shoot-off. Again Burney dropped three and the match went to Whittington with 50-47-48.

Familiar names came up as the third match opened Saturday's program. The first was that of National Champion Ransford Triggs who set the only National Record when he sailed a possible and 38 X's into the 50 yard target with iron sights. Then Gilbert Moriconi of Richmond, Va., pounded out one of two possibles in the 100 yard iron and won with 26 X's. Waldo Seagly, Topeka, Ind., did the same in the Dewar iron with 27 X's.

Late-arriving Sam Tekulsky of New York, who was excused from the school and any awards he might win, out-scored everyone in the Dewar Any with a 26x possible but the trophy went to Expert Henry Corley, Englewood, N. J., with 23 X's.

Less than 24 hours before Army induction time, Gil Combs, South Orange, N. J., eked out a win Sunday in the 50 yard any when his 400-36x out-ranked a similar score of Whittington's. Then National Top-Ranking Dave Carlson (who couldn't take any medals, either) closed up mid-range proceedings with 400-33x's in the 100 yard any but the trophy went to Triggs with 30 X's.

This gave Champ Triggs all three Aggregate trophies although "No awards" Tekulsky had him by three X's with any sights. His total in the Grand Aggregate was 2395-184x; Fred Kuhn was second with 2391-179x.

Class winners were: Leonard Airey, Baltimore, 2385-159x, Expert; J. A. Brown, Union, N. J., 2378-111x, Sharpshooter; Sam Dorsett, Winston-Salem, N. C., 2368-102x, Marksman; Walter Tomsen, 2374-120x, Restricted.

It was during the firing of the final match, 20 shots at 200 yards with iron sights, that rain made a sudden and boisterous appearance, washing out the final relay. This gave a well-earned win to Charley Brown of College Park, Md., with 196-8x.

The special Johnson Trophy Aggregate, totalling the Grand Aggregate and the two opening 200 yard events, went to Thurman Randle with 2581 x 2600.

If Triggs' victories on the rifle side seemed like Camp Perry '41 all over again, the pistol was even more the same sad tale to all but Harry Reeves, for the Detroit Police Superman still hadn't lost that touch. He had a special reason, too, for he had returned after five years to the same range where, *as* a Marine, he first amazed the Marines with his ability. He's amazing them still.

While word was just beginning to go around that Harry would soon turn in his policeman's uniform to don that of a Leatherneck again, Reeves ran off victories in the first four individual matches with 294 in the any caliber National Match Course, 298 in the .22 Camp Perry, 297 in the center fire Camp Perry and 190 at 50 yards Slow Fire with the .22 gun. Captain Walsh and Lieut. Phil Roettinger took the Timed and Rapid Fire stages, respectively, with 199 and 197. But Reeves got hot again and fired 189 center fire Slow and 198 Timed Fire to win before Walsh's 197 topped him at Rapid Fire.

The three Aggregates came Harry's way on Sunday when he fired 294 to win the .22 National Match and 296 to cop the center fire National Match. This gave him 877 with the .22, 875 with the center fire gun and, combined, totalled 1752 in the Grand Aggregate. Walsh trailed by eleven points. U. S. Park Policeman Leon Cool of Washington led Experts with 1670; M. R. Simon, Beaver Falls, Pa., led Sharpshooters with 1633; George Townsend of Philadelphia led Marksmen with 1615, and Fred Hudson, New Haven, led the Restricteds with 1623.

If the Marines didn't get enough glory in running the whole affair they did in the team matches. Capt. Emmet Swanson, Platoon Sergeant John Cochrane, Roettinger and Walsh won the National Match .22 event with 1124 and the .45 with 1040. S. J. Bartletti was substituted for Swanson in the center fire and their 1129 scored again.

Tell it to the Marines—they ALL did a great job!

DEER HUNTING *BEGINS AT HOME*

ONE NIGHT DURING THE FIRST WORLD WAR I was on duty at the office of Military Intelligence with Inspector Thomas J. Tunney, ex-head of the New York Police Pickpocket Squad and later of the Bomb Squad. It was a quiet night with little to do, and Tunney was telling me a story that started something like this:

"It was on the 13th of July, 1897. I was standing in front of No. 10 Blank Street. Across the street, in front of No. 11, was a truck with H. Jones, 93 Bones Street, on it. The white horse hauling it was about half asleep. I spotted the driver because he wore a brown felt hat . . ."

The minute detail continued to the end of his story—which was a not particularly important case. For some twenty years those minute details were photographed on Inspector Tunney's mind. Men in the Intelligence Division who worked in the old Bomb Squad have told me they could ask Tunney practically any detail of any case he ever worked on and he could tell them off-hand the correct answer without referring to any notes.

More recently I was asked to take a certain lawyer to see my log cabin. He had been requested by a client who wanted to build one to see mine and report all details to him. The lawyer arrived at the camp and made a complete tour of inspection. We thereupon adjourned to the front porch. Had he noticed, I asked, the brick charcoal broiler built in the kitchen? He had not. Had he observed the roof is hung on purlins lengthwise of the living room instead of rafters crosswise? He had not. Did he see that the kitchen, an alcove off the living room, was under a separate gable forming a hood over the kitchen? Well . . . no. At the end of a dozen more questions I wondered if he had really been in the cabin at all. So we started all over again. This time, as we came to it, I pointed out each item, gave him a pad and pencil, and, after the manner of lawyers, he solemnly wrote it all down. I have no doubt he was well trained to remember what he read in a book. A printed page, perhaps, meant something to him. But concrete objects he came in contact with did not register. He just did not see them.

Largely, of course, this is a matter of training. Inspector Tunney was highly trained along these lines and the lawyer was merely an average observer. Yet neither was conscious of any special gift or lack of it. Each felt that his own reactions to the things around him were normal, without at all realizing what they meant. Being incidents from everyday life, we see immediately what they mean and their value in civilization. Exactly the same qualities are necessary to a successful deer hunter and mean just as much in the deer coverts. I meet samples regularly every Fall.

We all know the young hunter on his third deer hunt.

By WILLIAM MONYPENY NEWSOM

Having killed a buck or so, he is now a Sage. He insists he can always tell the difference between the track of a buck and a doe, as the buck is heavier and the hoof more rounded—which is by no means always true. He knows exactly where the deer bed down, just what time they go to the beds and when they start to feed again—which is more than the deer know themselves. He knows which way a wounded deer will run, whether up hill or down, and how long after a deer is hit he must wait for the deer to lie down and become so stiff he can walk up and jab him with his seven-inch Bowie knife. But the crowning blow, the blow that will burn you up, he produces when he comes in and unloads his automatic at your feet.

"Well, I saw my big buck track again today. In the mud right under the big rock at the ford of Pincus Brook. He's a whopper. Tracks as big as my hand."

Well, it just so happened you came home by the ford of Pincus Brook that night and saw the same track. But you really looked at it. An average sized deer made it. He was going down hill, the mud was soft and slippery, so he slid a couple of inches forward, as the Sage would have seen too if he had *looked*. But the trouble is, the Sage hasn't been trained to look, and to really take into his mind and digest what is there in front of him for him to see. Nor will he ever learn.

It is, of course, utterly impossible for us who live in civilized communities ever to hope to equal the man who has had the opportunity of hunting six months of the year all his life. Nor can that man equal in any way the aborigines who live by hunting, as for example, some of the African tribes. All the same, there are ways of learning, even if you are far from the deer country.

We know, of course, the human being is subject to habits of thought and action—most of the bad habits being, I find, particularly easy to acquire. If, for example, you want to learn to shoot a pistol, you start in your own room learning trigger squeeze, snapping the pistol "dry" at a small target on the wall. You keep at this until you can squeeze off the shot without the sights or muzzle wobbling—which is no mean task. Only then do you go to the range to try the first shot.

No one I have ever known prepared himself in the same way for his first hunt—except possibly by learning to shoot, which is certainly of no importance at all, if you can find nothing to shoot at after you get to the hunting country.

So I suggest you first practice deer hunting on a store window. Study it carefully and try to see everything in it. (Avoid those corner chain stores or you'll go mad.) Then when you think you are pretty good, look away and try to remember what was in the window. Then look back and see how many items you have missed. This sounds more like a memory test than an observation test, but actually it isn't. For you will easily remember if you actually took into your brain what you saw. In a short time you will become surprisingly proficient.

This training will come in very handy when you go through a clump of raspberry bushes, in a sprout land of maple shoots and brush. Then you will observe that the deer are picking the ends of the raspberries, and it will be a help to your morning and evening plans. If you doubt me, next Fall ask any camp full of hunters what the deer are feeding on. Unless it happens to be beechnuts or acorns where they plow up the leaves so it looks as if a steam shovel was at work, only a few men will have any idea. Those men will be the older, more experienced hunters.

You can also learn a lot about tracking at home. If you are near a bridle path in a park, observe one individual hoof print that you know was made at an exact time. If it's clear weather, watch it morning and night for a day or two until you recognize the signs of age. Watch also the effect of rain on it. Cows in a meadow or along a road or at the side of a bush will do as well, provided you make a systematic job of it. If you have no animal tracks available, your own tracks will do just as well. After you have given this a trial on soft, bare ground, try it out under different conditions. With snow on the ground it is especially interesting to see how long it takes in different kinds of snow at different temperatures for the edges of the snow on the tracks to become rounded and for the bottom of the tracks to freeze.

There is one knack a good hunter has which is always a mystery to the recruit. That is the faculty of overlooking the usual in the landscape and only seeing the unusual. An old hunter glances over the country, takes it all in and picks out one little spot a long way off which he proclaims to be a deer. It's perfectly stationary. Heaven alone knows how or why he picked it. He can't tell you. But it *is* a deer and the new recruit doesn't see it until it starts to run—two jumps and the deer is gone.

I had a sample of this at my own expense one Fall. I had been hunting constantly from the East on through to British Columbia and on the way home I stopped for some chicken shooting in Saskatchewan. Where we were, the whole country was simply mile after mile of wheat stubble. The grouse, then, merely showed their heads above the stubble. My guide could see these heads at amazing distances, and although he tried to point them out to me, I could *not* see them until we were nearly on them. As day after day passed, my ability to see these heads lengthened and at the end of two weeks I could see them nearly as far as could the guide. It was merely a matter of practice.

So it will be with you in deer hunting. Only experience will help you. There is no trick method by which you can increase your ability to spot a deer—which, by the way, is the most valuable asset in deer hunting, far and away more valuable than being a good shot.

But whether or not you decide to take up a course of home training in observation to prepare yourself for your deer hunt, you can be sure of one thing. If you expect to see deer when you are in deer country you must keep your mind on the business in hand and *think* deer all the time. It's a job that takes concentration and mental alertness. You cannot hope for success if you wander along dreaming of the kind of car you will buy next Spring, worrying how you will pay your taxes or otherwise carrying your outside burdens with you. If a deer should be near, your chance of seeing him before he jumps will be poor—and to be jolted out of a day dream into a deer hunt never produced any venison as far as I know. You'll also find when you get to the deer country, that a man who is a poor observer of the things around him in the everyday life with which he is familiar, will be an even worse one where he is in strange surroundings. And leaving out that all important question of luck, it's usually the best observer with the best trained eyesight who comes home with the largest slice of the well known bacon.

New TELESCOPE *Sights*

By F. C. Ness

DON'T ASK ME HOW HE DOES IT in these "daze" of priorities, but R. A. Litschert of Winchester, Indiana has brought out a couple of new models: high-power target scopes and light-weight target mounts. The mounts have split bases and clamping screws, graduated stems and thimbles; they are finished bright, of some aluminum-alloy apparently, and look like a cross between a Fecker and Unertl target mount, fore and aft. The scopes are long, have enlarged objectives and graduated focus sleeves and could be a cross between a Unertl high-power and a Lyman Targetspot.

The 20X Litschert "A" model is 24½ inches long with threaded lens caps and weighs about 1⅛ pounds without mounts. The objective end is 1.75 inches wide outside the sleeve, with a clear aperture diameter of 36.5-mm. If it were a true 20X its exit pupil would be 1.825-mm. Our inexact measurement came out 1.85-mm. which checks adequately. The eye relief was a maximum of 1⅞ inches, eye to lens, or 1⅝ inches to the ocular end of the tube. The clear ocular diameter was 17.5-mm. The field of view at 100 yards was 5.63 feet wide as we measured it. The definition was good, especially in the middle of the field and the resolving capacity was 1/16 minute of angle as determined at 200 yards. Near the edge of the field the resolving power was ⅛ minute. By adjusting the eye piece to suit our vision and the objective sleeve for focus we eliminated all parallax from both cross hairs.

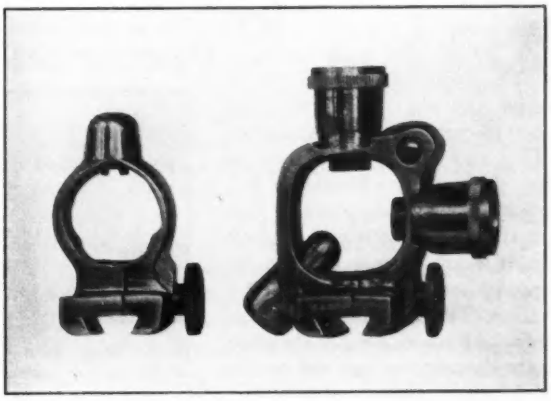
The 200-yard range adjustment was ¼ turn beyond the calibration mark. So focused we could spot bullet holes fully as well as with our big Bausch & Lomb spotting scope of the same power. The light was good, but the background was not favorable. The Litschert equalled the B. & L. prismatic spotter in resolving power under this light condition, which surprised us. We have not compared them in poor light.

The other Litschert "A" model was a 10X of similar design, 25 inches long and weighing about 1¼ pounds with Litschert's new mounts. The O.D. of the objective end was 1.765 inches, with a clear aperture of 36-mm. For a 10-power this meant an exit pupil of 3.6-mm. Our measurement made it nearly that or 3.5-mm. The ocular aperture was 16.5-mm. and the eye relief to the lens, 2⅛ inches maximum, or 1⅞ inches to the tube edge. The field of view was 8.83 feet at 100 yards as we measured it. The definition was good and so was the light. The resolution was 1/16 minute of angle, taken at 100 yards.

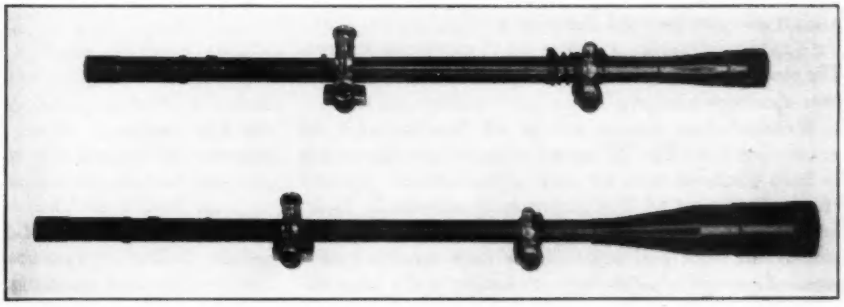
We had no difficulty in focusing for vision, range and the elimination of parallax, but we found Litschert's calibration did not agree with our own requirements of adjustments. The 100-yard focus-sleeve adjustment was 1¼ turns back (rearward) of our 50-yard focus reading.

We also tried a new Litschert "C" model, marked "6X," equipped with his new mounts in sporting style. These target-type mounts on this varmint scope had a return spring and a quicker thumb knob lock instead of the slotted screw for locking mount adjustments. The instrument was 20½ inches long and weighed about a pound with its mounts. The objective end measured 1.15 inches, with a clear aperture of 20.5-mm. If it were a true 6X the exit pupil should have been 3.42-mm. Our measurement gave 4.2-mm. which would indicate only five magnifications. Also the image was very bright, with more light than we had expected of a 6X.

Whether this was a 5X, 5.5X or 6X, it did have very good definition, with the clearest white and black contrasts in the image that could be imagined. It was easily superior in definition to any 6X, 20.5-mm. optical instrument we had used recently. The resolving power was ¼ minute at 200 yards and only ⅛ minute when taken at 100 yards. The eye relief was 2⅜ inches maximum to the lens and 2⅛ inches to the ocular end of the tube. The ocular aperture measured 16-mm., and the field of view 15.65 feet at 100 yards. Our range focus for that distance was a half-turn beyond the calibration mark.

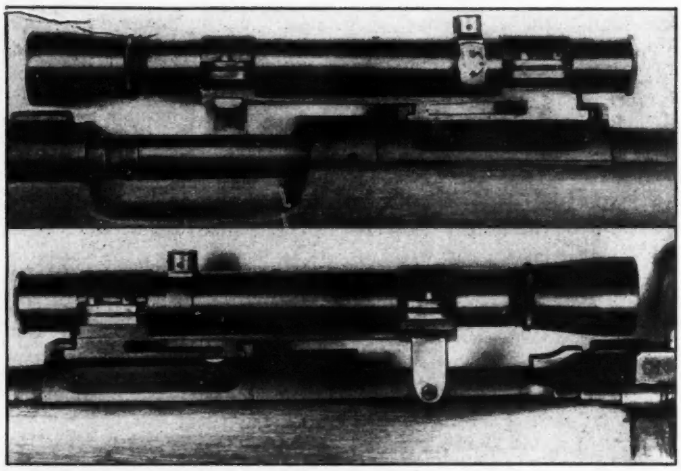


Litschert scope mounts are supplied in both hunting type and with quarter-minute clicks for target work.



The new Litschert scopes: above, 6-power, ⅞-inch objective; below, 1½-inch 10-power. Both have graduated focusing sleeves

All the Litschert scopes have adjustable eye pieces, enlarged objective ends with focus-sleeves and integral ribs on the tube for guiding the front mount. His target scopes also have a thumb-lock stop-ring for the front mount. The new target mounts for standard dovetail bases are split all the way through for clamping purposes. The coin-slotted and knurled locking screws are



The Magill scope mount utilizes the Service sight base for holding the front scope clamp. The scope shown in the mount is a 2½X Noske

above the dovetail and do not engage it. While this simple clamping will, of course, hold adequately on rifles of light caliber, we are only morally certain about its adequacy when considerable recoil is encountered, as on the .30-'06, because we tried it with less than fifty rounds. The top of the mount is also split vertically on the right side and a slotted screw is provided for locking zero adjustments when desired. Incidentally, we got 1¼-inch groups at 100 yards with FA'36 M. ammunition in one .30-'06 rifle while testing a Litschert scope sight.

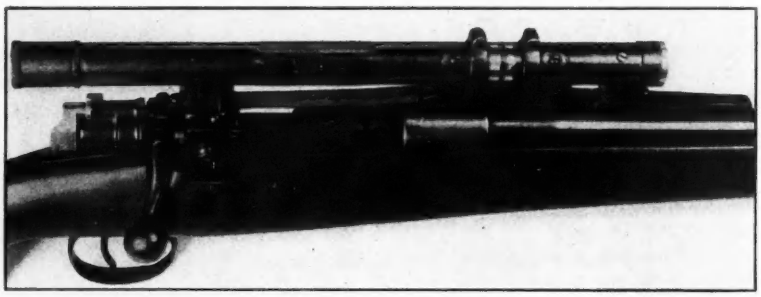
The adjusting knobs are of a shape and size which makes for convenience in their manipulation. They are clearly graduated and so are their stems. Their steel-ball click detents are sharp and positive to the finger and ear, each click being worth ¼ minute when the mounts are separated the usual 7.2 inches. The flat square ends of the adjusting screws contact the scope tube directly, on top and on the right side. The opposing spring and its round-headed plunger bears against the tube between them on the opposite side, making a three-point triangular support. The tension spring in the front mount is in the top directly over the scope rib.

We tried these mounts on the 52 Winchester at 50 yards using the 10X "A" model scope. Our adjustments in both planes were in 12-click units, with an expected change in impact of 1½ inches, or 3 minutes of angle. It worked out very well from bench rest, as we could aim at the same bull and still get back into each of a series of groups by adjusting both knobs, in the same 12-click increments, but in reverse order. Some of these changes in adjustments as checked by firing gave impact changes of 1.45, 1.52, 1.53, 1.55, 1.70, 1.60, 1.56, 1.56, 1.56 and 1.56 inches in both planes. In fact, no serious discrepancy came from changing an extreme right windage to the left a total of nine units or 108 clicks. The expected impact change was 13.50 inches. By target measurement it was actually 13.65 inches, which is very good. A series of 3-shot groups were fired across the paper in both directions with mount manipulation and a single aiming point. A second series was then fired in reverse order using the same aiming point. None of the groups (now 6 shots each) was appreciably enlarged, the smallest of these final groups being 0.68 inch and the largest 0.95 inch.

Mr. Litschert, the maker, lists these scopes as follows: The Model "C" with ⅞-inch objective can be furnished in 6X, 8X, 10X, and 12X; weight 15¾ ounces. The price with mounts is less than forty dollars. Also the Model "B" with 1¼-inch objective, otherwise same as above. The price is less than fifty dollars. "The click is a small steel ball and will not break or wear." Also the Model "A" scope with 1½-inch objective can be furnished in 8X, 10X, 12X, 15X and 20X. Weight, 21½ ounces. Features same as Model "C." Price, about sixty dollars. Shock absorber, one-fifty extra.

M. L. Stith, has added a new model of his well-known "Install-It-Yourself" mount; this one for the M-23 Savage rifle. We tried one, using a Weaver scope, with good results. It is simply mounted, even in the absence of a gunsmith, and the scope is in low position for aiming comfort and convenience. See the cut.

Jack Frost of the Humboldt Bowmen has been working on a new receiver mount for using hunting scopes on bolt-



An improved version of the Sorenson "Springboard" mount. This one is on the author's .228 Ackley Magnum, with 2¾X Belding & Mull

actions, especially designed for the .30-'06 caliber and other rifles adapted for military calibers because it permits clip loading. The only other mount which provides for clip loading is Frank Pachmayr's Universal Scope Mount. Illness and the war have delayed Jack Frost, and may hold up his new mount for the duration.

J. A. Magill of Clarkdale, Arizona, has designed a scope mount for the M-1903 Springfield rifle which utilizes the Service sight base for holding the front scope-clamp. The rear scope-clamp is fastened to the left side

of the receiver. An extension strap underneath the scope joins the two clamps. The arrangement is clearly shown in the accompanying cut. Magill has used the outfit for years in very rough game country and he says it has held up without any change in zero under very rough treatment. His mount is made of "Chrome-nickel steel" and it holds the 2½X Noske scope, which has long eye relief, in very low position ahead of the bolt handle. This could be a very useful mount for special military purposes. Previous to this Magill outfit, I remember only the Noble mount and the special Belding & Mull mount designed for the rear sight of the Service Springfield.

E. L. Meisel of Baltimore, Maryland designed a mount for hunting scopes, a few years ago, which we deemed an improvement on the Redfield and Tilden bridge mounts. It was attached to the rifle by standard dovetail blocks, front and rear, and had a pivotable top, or scope holder, which was separate from the fixed and anchored bottom attached to the dovetail blocks. This swingable part holding the scope was pivoted in front and controlled by two opposing windage screws and guided by true arcs or curved seats in front and rear. Designed for those scopes having internal elevation adjustments it permitted a low position of the instrument, gave a neat smooth outline and provided for convenient anchorage to any rifle fitted with standard dovetail blocks on short centers of 6 or 6.86 inches and up to 7.2 inches.

About a year ago we made our second test of this mount on a .220 Swift rifle. This second one was an improved and refined model on the M-54 Winchester using a Lyman Alaskan scope. The windage screws had click detents, with 18 clicks equalling a complete turn of the screws to right or left. We used 9-click units of adjustment, and the impacts at 100 yards moved 3.60, 3.50, 3.75 and 3.70 inches per half-turn, which indicates pleasing dependability. However, some judgment was required in turning up the screws, as a variation in snugness or tightness would affect the impact. Full turns of 18 clicks gave us impact changes of 8.35 and 8.75 inches which, unaccountably, were proportionally greater than the average 9-click change of 3.64 inches.

This Meisel mount will probably appear on the market after the war. When it becomes available it will probably appeal to those shooters who want a convenient bridge-type hunting rig for utilizing the target-scope dovetail bases already on their rifles.

Andy Sorenson has greatly improved his Springboard mount. I have his latest model on my new .228 Ackley Magnum (.30-'06 case, necked, and .2275-inch groove diameter) which holds my special long-relief, 2¾X Belding & Mull hunting scope in low position. Since these mounts are custom built, until post-war conditions will permit production, Andy can utilize any screw holes which happen to be in the receiver and barrel.

On my rifle Andy replaced the front dovetail block on the barrel with a block anchorage for the front end of his hold-down spring, which is a long, flat strap under humped tension and attached to the receiver. This now has appreciably more tension than formerly, and the scope now snaps sharply into its saddle or V-seat on the bridge, when it is shoved over the new rounded guide on the right side of this rear rest.

The front tube-clamp of the scope is hooked into an arced seat on top of the hold-down spring. It is put on with a left-hand swing and removed with a right-hand swing of the scope, grasping the ocular end of the tube. This convenient but positive arrangement permits taking off the scope easily, quickly and at will without any loss of zero. The windage adjustment is in the scope rest on the bridge, controlled by two opposing screws which move the V-rest right or left as required. As near as we could judge a quarter turn, in the absence of a register mark and graduations, these gave nearly 4-minutes-of-angle of impact-change on the target, and a half-turn, about 8 minutes of group movement. The elevation control is a vertical screw which pierces the hold-down spring and contacts the top of the barrel. This elevation screw is in a split block with a lateral-screw for locking the adjustment. In elevation the impact change was about the same per turn or slightly less. Although a screw-driver is required these are satisfactory adjustments for zeroing a hunting sight for any kind of game or varmint shooting, or for test-shooting on targets.

A mount for the M-23 Savage, a newcomer to M. L. Stith's series of "Install-It-Yourself" rifle scope mounts

For mounting the internally-adjusted Weaver scope on falling-block Single-Shot rifles the neatest mounts we have seen are the Albree Twins and the smooth Parker-Hale ring mounts. However, both makes are now hard to get. One of our friends imitated the Parker-Hale by sawing off the two clamp rings of the Redfield bridge mount and welding to them the female dovetail base of the Redfield Olympic muzzle sight. Thus, like the Parker-Hale, he had clamp-rings with which he could attach his scope on standard dovetail bases.

Frank de Haas, of Orange City, Iowa, solves this same problem by cutting off the Weaver mount rings and welding them to a concave base about half-a-foot long which, in turn, is fastened on top of his barrel with two screws. He makes these concave base strips very easily by sectioning old 12-gauge shotgun barrels down the middle lengthwise. In cutting and welding the Weaver clamp rings he can control the height of the scope and its eye position on his S.-S. rifles. He says he has made them for several different rifles and all have been strong, neat and quite satisfactory. His single base strip adds strength by joining the two mount rings, and its concave provides a convenient self-centering fit and alignment on the barrel. On falling-block rifles this base strip is brought back against the receiver for a very neat outline.

Ralph Waldo Miller, the ".22-60" gunsmith of Tapanga, California, custom-builds a top mount for those big German scopes on the order of the Redfield bridge mount, except that Miller's windage screws go straight through the rear mount, and not at the usual angle.

ONCE A BANDIDO . . .

By C. H. Bronson

HOW WAS OLD JUAN TO KNOW ABOUT THAT LAST CARTRIDGE? A TALE OF BLOOD AND STRAIGHT SHOOTING ALONG THE CATTLE TRAILS OF TEXAS

OLD JUAN RODRIGUEZ WAS AT IT AGAIN. Mexican bandidos had been living for years on Indio Cattle Company beef and Juan, with four or five caballeros of the same breed, was the swarthy, hard-riding valiente who usually did the stealing. Contrabandistos, on horseback, would bring their loads to this side, make contact and delivery, and ride back Mexico-way—stopping just long enough somewhere between San Antonio Creek and the Barranca Azul to cut out a fat steer or two and drive them across the shallow Rio Grande.

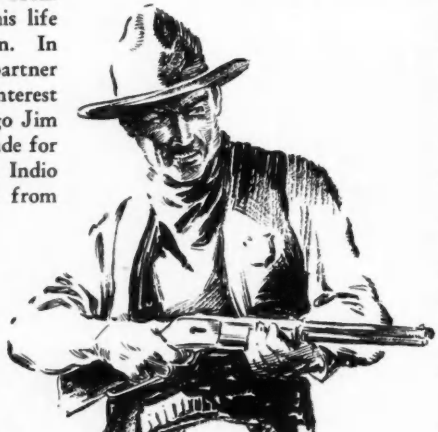
Buck East was an old timer in the service. It was with him and Hugh Charles that I was sent from Border Patrol Headquarters at Del Rios, Texas, to the Indio, which is thirty miles below Eagle Pass. We were to try to stop old Juan and his compadres. Their trail had been cut near the main ranch for the first time in three years. Why the three years? Well, that's getting a little ahead of myself. We camped at the Bull Pens water hole—three men, eight head of horses and our half-breed cook.

East was only about forty-five years old, but his life would have read like pages from wild west fiction. In Laredo once, and again in Alice, he had seen his partner shot from his side. Naturally, it was with keen interest that Charles and I heard him tell how ten years ago Jim Appleton had built a fence paralleling the Rio Grande for thirty-five miles in an effort to curb the loss of Indio cattle, and heard him tell, further, how bandits from south of the border had stolen even his fence. He told how it was stolen wire by wire and then how they even pulled the posts and set them up on the other side. After that old Jim had hired men to ride with the stock down in the vegas—men who had not ridden a range as much as they had wet-nursed a Winchester. They promised him that the company would lose no more cattle.

The company didn't—that is not until they left, the company didn't. Their bloody stories will never be told. Law and justice was meted over the sights of thirty-thirties. The Indio brand flourished. They grew too fat. Old Jim left the company for a six-shooter job. New York financiers, who knew more of banking than of cattle rustling, took over. The entrails of fat steers were again found in the vegas. They had been butchered on Indio land and the quarters rode on lean Mexican ponies across the river above San Antonio Creek.

In 1933 East was in charge of the Border Patrol station at Eagle Pass and had placed patrol officers Poston and Rolls on the Indio. Right here begins the story of an incident which in all the annals of American gunfighting and rifle shooting is not excelled in courage and cool marksmanship. Only too shortly past, the names of these men are not given correctly. The service has the official story, but the facts exist as narrated by East and he should know.

It was in November and Poston and Rolls were deer hunting. Poston had killed a buck about a mile north of the Barranca Azul and Rolls had not shown up. Poston went down to the bank of the river, the Rio Grande, to wash his hands after bleeding and gutting his buck. Climbing back he saw five horsemen approaching from the direction of the hills where Rolls had been hunting that morning. They were more than three-quarters of a mile away and were loping toward him.



He thought they were vaqueros who were working on the ranch riding to greet him or to see what he had shot. He walked out into a broad flat—every step taking him from cover which in a few moments he would so eagerly seek and not find.

He did not expect trouble and continued on toward the riders. He could not understand why they rode so wildly and was closely watching them when one, over-anxious and hot-headed, gave a welcome warning by firing a shot at over three hundred yards. Had he saved his fire they might have got close enough to ride him down. But now Poston knew what kind of a game he was being called upon to buck and with typical resourcefulness he rapidly, but thoroughly,

gauged the situation with an eye experienced in trouble.

A quick survey revealed two grave facts to him. One was that Rolls was not in sight; he was hunting in the hills perhaps two miles away. The other was that his only cover, the river bank, was at least one hundred and fifty yards to his rear. The horsemen, of whose identity he was now positive, broke into a hard run toward him.

Poston's Winchester .30/30 carbine had seven cartridges in it. He sat down with his back to a scrub mesquite no higher than his waist and as thick as his wrist at its base. He sat waiting. Aiming.

The bandidos were shooting wildly and rapidly as they rode down upon him. Poston sat by his bush and waited as one shot hit the trunk of the little mesquite and the others cut the ground about him.

At about a hundred yards he fired his first shot. One shot and one saddle emptied. Then another! Two down! A third rider broke off to the left, circling. A quick shot killed his horse. Another shot broke the arm of another rider. The rustler whose horse was killed opened fire from behind his dead horse. He fired several shots and then made a jump to get behind the man with the broken arm who stopped for him. He was killed even as he leaped. The broken-armed one disappeared in an arroyo a hundred yards or more to the rear. He rode for the river.

One of them remained. It was Old Juan Rodriguez himself. Indian-like and crafty, toughened by forty years in the brush, he dismounted and fired a deliberate shot at thirty yards and missed! Frantically he jerked the lever of his rifle and jacked in another shell. He struggled. It stuck. Poston killed his horse in front of him.

It was man for man. One cartridge each at thirty yards. Split seconds elapsed. It seemed ages. But not to Poston. He slapped in his one cartridge, fired and killed the last and the boldest of them all while he jerked at the jammed rifle. Some perverse fate had decreed that morning that one wrong cartridge should be stuffed into the magazine of Juan's Winchester .30/30. The last one was a .32 Winchester Special.

Seven shots by Poston. Dozens by his adversaries and they were beaten. One escaped, wounded, to the river. He made it across and lived. He left four of his comrades dead by the steady hand of the cool gringo.

I have read of the Lincoln County War. I know of Kentucky feuds. I have heard of Wyatt Earp at the Tombstone Corrals. I have known border battles that will never be in print as long as certain men live. But I have never heard of a more practical and cooly efficient display of marksmanship than Poston's.

No luck shooter, Poston. He is a crackshot on a rifle range. He is a member of the N. R. A. and has competed a half dozen times at Camp Perry. Down in the brush he carries a .30/30 carbine and with it he is poison.

Proof? The buzzard-picked bones still lying bleaching these past few years on a little prairie just north of the Barranca Azul. I saw them. Horsebones.

THE VETERAN

(*Continued from page* 10)

loading and a one-piece, quarter turn bolt with forward, symmetrically positioned locking lugs.

American military rifles of modified Mauser type are the famous model 1903 Springfield and 1917 Enfield, both of .30-'06 caliber. Both of these rifles are excellent for their intended purpose and slightly exceed any other military rifles as regards accuracy, but their breech action designs are not as desirable as those of original Mausers.

The pattern '14 Enfield in .303 caliber is the only modified Mauser made by Great Britain. It is used mainly as a substitute standard by the modern British Army.

In 1905 the Japs adopted a modified Mauser rifle in cal. 6.5-mm. semi-rimless. While it is of fairly good design, it is not very well manufactured. As a consequence, Japan has an inferior quality shoulder arm of very mediocre accuracy.

Carcano, a noted Italian small arms designer, combined Mauser bolt ideas with the Mannlicher magazine. This combination is called the model 1891 Paravicino-Carcano. Its caliber is 6.5-mm., and the ammunition is not interchangeable with other cal. 6.5-mm. cartridges. Carcano design and workmanship are only fair, and the accuracy performance is nothing to boast about.

Ever striving to produce better firearms, Mauser produced an experimental, semiautomatic, high-power rifle design in 1913. This was a fixed barrel weapon of very peculiar and original type.

In this design the forward locking, double lug, rotary bolt head is prevented from unlocking until breech pressure has subsided to within safe limits. Unlocking is prevented by a spring actuated, longitudinally movable, inertia block which does not allow rotation of the bolt head at moment of discharge. During firing, the inertia of this sliding block prevents its recoiling rearward with the rest of the gun. During recoil, it moves forward in relation to gun, compresses its coil spring and moves out of bolt lug path so that the bolt head is free to rotate and unlock. Locking cams on bolt lugs and receiver locking shoulders are on a very gradual slope so that little pressure is required to unlock bolt after inertia block moves out of way.

Such a semiautomatic rifle design would be almost ideal if its inertia block would have the same performance in all firing positions and under varying circumstances. Unfortunately, however, the amount of inertia varies in relation to various influencing factors the gun is subject to so that positive functioning is not assured.

Paul Mauser became so famous for his firearms inventions that the German Government admitted him to the upper brackets of the old imperial, heel clicking, aristocratic social caste. Due to his eccentric personality and periods of moodiness Mauser must have found it quite a task to carry out social functions required of his high social position. Shortly before his death he had acquired the impressive sounding title of Privy Councillor Doctor Engineer Paul von Mauser.

He was not nearly as successful in covering the whole field of small arms invention as John Browning, but excellent principles of his designs are so sound and outstanding that they will affect firearms design for many years to come. Today the name of Paul Mauser is only a memory, but products of his ingenuity live on in fame.

(*To be concluded*)

The First .22 HIGH POWERS

By N. H. Roberts

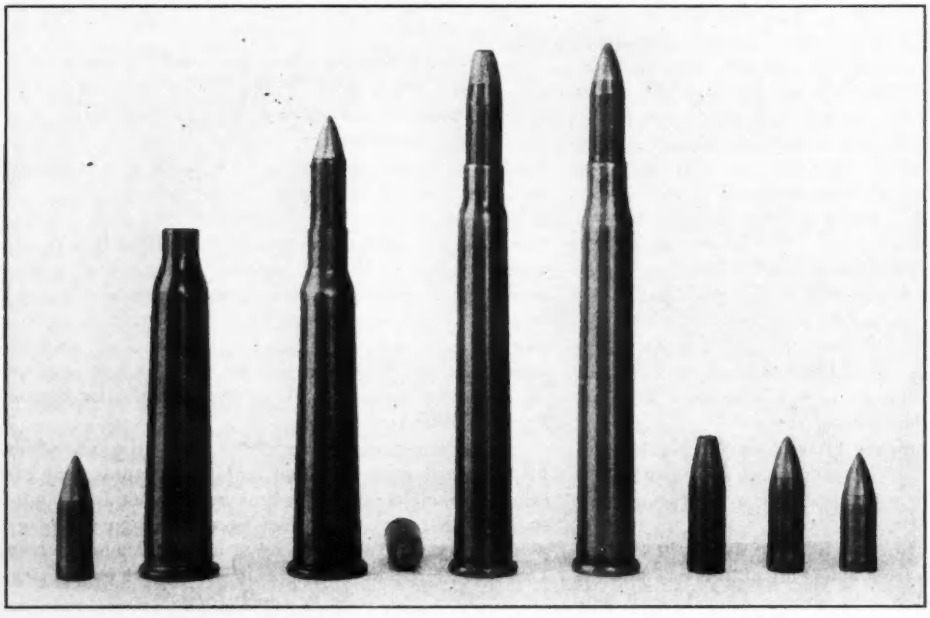
Doubtless the first .22 caliber cartridge in this country which gave higher velocities than the .22 Winchester center-fire and .22-15-60 Stevens was the original .22 caliber "Hornet," which was developed by Reuben Harwood of Somerville, Massachusetts, in 1893 or '94. I am not positive about the exact date on which Harwood announced this cartridge, but I had some correspondence with him regarding it in August and September 1894, in which he stated that he and a friend would use Stevens rifles re-chambered for his ".22 Hornet" for their squirrel and grouse hunt in northern New Hampshire in October of that year.

Harwood claimed that this cartridge with his "duplex" load of duPont No. 1 Rifle Smokeless, and FFg Semi-smokeless back of his 48-grain type-metal bullet gave 1900 foot-seconds velocity and over 1750 feet with the 55-grain bullet. With his load of duPont No. 2 Rifle Smokeless primed with FFg Semi-smokeless and the 48-grain bullet he claimed a velocity of practically 2000 feet per second, though whether these velocities were actual chronograph readings or estimated ones I do not know. The speediest loads in the .22-13-45 W. C. F. and Stevens .22-15 with the 46-grain bullet were not over 1500 or 1600 feet per second; therefore the "Harwood .22 Hornet" was our *first* cartridge in .22 caliber that gave high velocities for those times, combined with finer accuracy than that obtained with either of the other cartridges mentioned. I do not think Harwood furnished more than fifty rifles for his "Hornet" cartridge and it never became well known. He later became interested in developing a .25-caliber high velocity cartridge much like the later .25-35 Winchester and .25-36 Marlin, and abandoned his "Hornet" about 1897.

The second .22 caliber high velocity cartridge that the public know about was designed by the late Charles Newton around 1900. It was adopted by the Savage Arms Company and became famous as the ".22 Caliber Imp." With a charge of high pressure smokeless powder and 70-grain "two-cylinder" bullet it gave 2800 feet per second muzzle velocity, but rather inferior accuracy.

During the late 1880's and early 1890's Mr. A. O. Niedner, then of Malden, Massachusetts, and later the well-known vice-president and inventive genius of the Niedner Rifle Corporation of Dowagiac, Michigan, became interested in developing a .22 caliber cartridge that would give much higher velocity with greater killing power than any then on the market, and experimented extensively with the .22 W. C. F. and Stevens .22-15-60 cartridges loaded with "American Wood Smokeless Powder," DuPont Nos. 1 and 2 Rifle Smokeless, the old "Hazzard's No. 1 Rifle Smokeless," and other smokeless powders then obtainable. Using hand-made, metal-cased bullets of various types, he succeeded in obtaining velocities considerably higher than those developed by any factory-loaded .22 caliber cartridges then made, but was unable to get the extreme velocities desired. The smokeless powders of those days simply were not right for developing really high velocities in such small cartridges; therefore he abandoned his experiments until improved smokeless powders came on the market several years later.

Bullets and cartridges used in the Niedner high-velocity rifle (left to right): 60-grain base-band bullet; .32-40-22 case for breech-seated bullets; .32-40-22 case with 60-grain bullet; 75-grain hollow-point; .28-30-22 with 80-grain soft-point bullet; .28-30-22 with 70-grain soft-point bullet; 75-grain base band H.P.; 70-grain and 60-grain base-band S.P. All are exact size



After the Savage ".22 Imp" appeared it was tested in single-shot rifles by several members of the Massachusetts Rifle Association at their Walnut Hill Range, but even with the best hand-loads and selected bullets it gave such poor accuracy at 200 yards that they soon forgot it. However, one of their members, Mr. Linwood Lewis, decided to develop—if possible—a .22 caliber cartridge and rifle that would develop around 2700 foot-seconds and fine accuracy

for the 200-yard offhand target shooting that was then so popular.

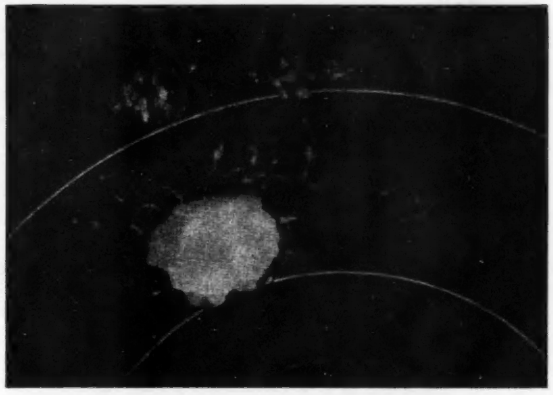
The "meccas" of the real rifle-cranks of the East were then the Walnut Hill Range and the "den" of Adolph Niedner, at No. 1 Beacon Street in Malden. There many of the most noted riflemen of those days frequently congregated to discuss improvements in rifles, ammunition, and sights, and most of all to develop a *super-accurate cartridge, rifle and bullet* especially for 200-yard shooting. A combination that could be depended upon to make a possible score on the Standard American 12 Ring Rest Target was their objective.

With this super-accurate, high-velocity .22 caliber cartridge and rifle in mind, Mr. Lewis consulted Mr. Niedner for advice regarding the best case to use, and to get him to make the necessary dies, swages and tools for forming these cases, make the bullets and chamber the rifle, etc. After several conferences they decided that the .32-40 case necked down to .22 caliber at the muzzle, with a very short neck and a breeching shoulder having about 28-degrees slope, as shown in the illustration herewith, would have the proper powder capacity and was the best ballistically for their purpose. Whether the use of the .32-40 case thus re-shaped was Mr. Lewis' idea or Mr. Niedner's I cannot state positively, but those who know about this matter believe that undoubtedly Niedner selected it for their first super-accurate .22 caliber high velocity cartridge. A year or two later Niedner necked down the Stevens .28-30 case to .22 caliber, with a short neck, and used this case for his rifles of this caliber, but during the first year all these rifles that he turned out were chambered for the necked-down .32-40 cases.

The cases used in Lewis' rifle, and most of the others during the first year, were made with the outside diameter of the neck the same as that of the base-band bullet used in these rifles. Therefore the bullet could not be seated in the case, but was dropped into the breech of the barrel, the loaded case with a wad over the powder was inserted in the chamber, and closing the action (the Stevens 44½) caused the loaded case to act as a bullet seater and breech-seat the bullet properly in the barrel. Since the first of these rifles were designed especially for target shooting, this method of loading and breech-seating the bullet resulted in the very finest accuracy—equal to that of the finest .32-40 and .38-55 match rifles using the "Chase patched bullet" and cleaning after each shot, as was then the general custom.

However, a few riflemen who had watched with much interest the development of this cartridge and rifle decided that if the bullet were seated in the neck of the case this should be the long-sought-for "ideal vermin rifle." These shooters appealed to Niedner to re-design the case so as to permit seating the bullet therein, whereupon he made new case-forming dies which gave a finished case with the outside diameter of the neck about .251 inch, or enough larger than the original case so that the base-band bullet was seated about $\frac{3}{32}$-inch deep in the neck of the case, which was inside-reamed with a shoulder on which the base of the bullet rested when loaded, thus producing a cartridge loaded with a 60-grain base-band bullet as shown in the illustrations.

Since there were no suitable .22 caliber metal-cased soft-point bullets on the market that gave really *fine accuracy*, Mr. Niedner designed the bullet illustrated, made a swage for forming them, and a mould for casting the cores, which were of a 1 to 20 tin-and-lead alloy. The next problem was a suitable copper jacket for these bullets, which could, of course, have been entirely hand-made from sheet copper discs swaged into the desired size and shape. But as a matter of economy and saving of labor, Niedner purchased from the Remington U. M. C.

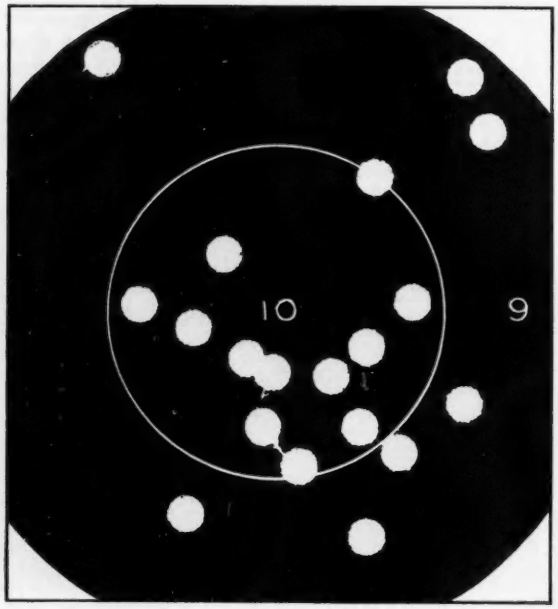


Originally published in *Arms and the Man*, in March of 1909, this 11-shot 200-yard group shows the possibilities of the Niedner high-velocity .22 with the best loads

Company quantities of ".22 caliber short cases trimmed but not rimmed" and used these for the bullet jackets. In these bullets we find a radical departure from the commercial types, as these are a "two cylinder," or "base-band bullet," with a medium length, pencil-shape and soft lead point, weighing 60 grains, quite similar to the much-touted "S-8 bullets" now used in the Gebby ".22 Varminter" cartridge. Using slightly longer cores and the ".22 long trimmed but not rimmed" cases for the bullet jackets gave us a base-band bullet weighing 70 or 80 grains, which some riflemen considered superior to the 60-grain bullet.

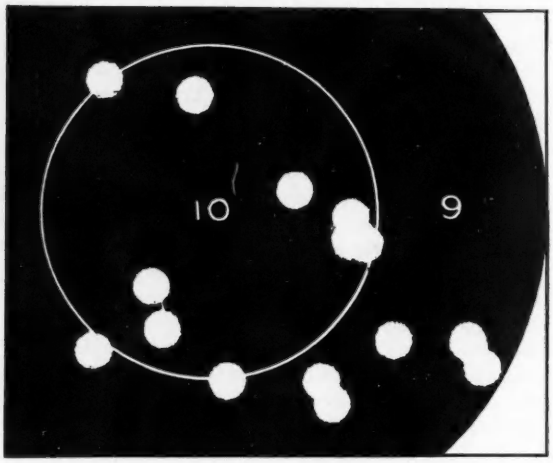
The late Dr. F. W. Mann and Mr. Niedner had together been experimenting for some months with base-band bullets in larger-caliber arms, and had secured so much better accuracy and velocity with them that it was decided to adopt that type of bullet for use in the .22 caliber high-velocity rifle, in which it proved very successful. The Niedner .22 caliber H. V. 60-grain bullets measure .2205 to .221-inch diameter in the cylindrical part; .2255- to .226-inch diameter over the base-band, which was $\frac{1}{14}$-inch wide, or deep, on this weight of bullet, and $\frac{3}{32}$-inch wide on the 70- and 80-grain. The average over-all length of the 60-grain bullet was .721-inch, that of the 70-grain was .821-inch and the 80-grain was .840-inch long. Also we had a 77-grain soft point bullet with a hollow therein which was filled with a No. 10 shot-pellet before swaging to a flat point, which was designed for improved killing power on woodchucks.

It will be noticed that the cases used in these rifles were also quite different from the various commercial cases, as the neck was quite short, averaging $\frac{3}{14}$-inch in length while the over-all length of the .32-40-22 case was 2 and $\frac{1}{10}$ inches and that of the .28-30-22 case 2 and $\frac{49}{50}$ inches. As to which of these cases gave the best results and accuracy, it is difficult to state positively, but from personal observations of these rifles in use I am of the opinion that the .28-30 was the better for the .22 caliber



Twenty shots fired by the author at 100 yards from rest. The load consisted of 21 grains weight Pyro, Lot 396, the 60-grain base-band bullet and Remington 9½ primer

A 200-yard, 15 shot group, fired from bench rest, with a 12-power Unertl scope. The load used was the 70-grain base-band bullet ahead of 20-grains of DuPont Number 16



high velocity rifle as it is of thicker metal than the best .32-40 cases, and consequently was more durable. The only trouble that I personally, and my friend F. J. Sage, experienced with the .32-40-22 case was that after reloading from twenty to twenty-five times many of them split in the breeching shoulder, while men whose rifles were chambered for the .28-30-22 H. V. did not have this trouble with their cases.

The action used for all these rifles at first was the Stevens Ideal No. 44½, which after being worked over by a competent gunsmith is one of the strongest single-shot actions made. It has the advantage that the rocking motion of the breech-block when closing the action forces a partly inserted cartridge into the chamber and at the same time breech-seats the bullet in the rifling, fitting the base-band bullet into the grooves of the bore and positively sealing the bore against any escape of gases. In effect it is the same as a muzzle-loaded bullet in the Pope rifles that are so famous for their accuracy.

During the years that Niedner furnished these .22 caliber high velocity rifles, some riflemen had Winchester Single-Shot actions rebarreled to use this cartridge with the bullet seated in the case, and found that action generally satisfactory. However, these rifles were chambered with no neck tolerance and practically none in the body of the case, and the Stevens 44½ action would positively insert and extract a case even though it fitted quite tightly. As the chamber had practically no tolerance these cases never required any re-sizing, and I now have some of these .32-40-22 H. V. cases that were reloaded and fired around one hundred times each in my rifle.

When loading the cartridges, both those having the bullet seated in the case and those with which the bullet was breech-seated, the proper charge of smokeless powder was placed in the case, then a Leopold "Oleo Wad" was placed in the neck of the case and with a small steel plunger this wad was pushed down about ⅛-inch into the neck; next a graphite-vaseline paste about the consistency of table butter was placed on top of the wad so as to fill the case even full, and then another "Oleo Wad" was placed over this lubricant. Thus, when firing, the bore of the rifle was lubricated *behind the bullet* at each shot, which improved the accuracy and assisted in preventing erosion of the bullet seat and breech of the barrel. Remember of course—this was the method of loading these cartridges back in 1907 and '08 as developed by A. O. Niedner, Dr. F. W. Mann, L. Lewis and others.

Mr. F. J. Sage and I tried out in this cartridge all of the smokeless powders then on the market. My records show that we obtained the best average accuracy with from 20 to 25 grains weight of Lightning smokeless; 20 to 25 grains weight of DuPont No. 15, 15½ or 16 smokeless, and 20 to 25 grains weight (depending on the different "lots") of Government "Pyro" with the 60-grain base-band bullet. Another load that gave specially fine accuracy at 100 and 200 yards was 24 grains weight of the old DuPont No. 21 smokeless powder with the 60-grain bullet, with which I made many of the finest, smallest groups and highest scores at these ranges. The best primers were 7½ or 9½ Remington.

When using the 70-grain base-band bullets the loads were from 3 to 5 grains weight lighter than with the 60-grain bullet, while the 80-grain bullet required 20 to 21 grains weight of No. 15, 15½ or No. 16 for the best accuracy. The "Pyro" smokeless powder did not give as good accuracy with the 70- and 80-grain bullets as we obtained with the other powders mentioned.

As an illustration of the very fine accuracy of the load of 24 grains weight of DuPont No. 21 powder with the 60-grain base-band bullet, breech-seated 1/16-inch in front of the case in my Stevens Ideal No. 44½-49 rifle, I made at the Walnut Hill Range on July 17, 1920, at 200 yards offhand, using my Winchester A-5 telescope, on the Standard American Target, the following scores:

10, 9, 10, 8, 9, 10, 10, 9, 9, 10, total 94
10, 10, 9, 9, 9, 10, 9, 9, 9, 9, total 93
10, 9, 10, 9, 10, 10, 10, 9, 9, 10, total 96;

aggregate 283 out of a possible 300, which was not bad for a .22 caliber rifle—or any other caliber—for an average shot like myself. The weather was especially good, with only a very light 9-o'clock wind when those scores were shot; unfortunately these were made in practice for a match a few days later, but were shot in the presence of several witnesses. When the match was fired I had "buck fever" and my scores were not high enough to win a prize; but that was no fault of the rifle or ammunition. I simply could not hold that day.

At 100 yards rest shooting, using a 6- or 8-power telescope, with the best loads of DuPont No. 15, 15½, 16 or 21 smokeless back of the 60-grain bullet, or the 70-grain, 10-shot groups would average about 1¼-inches, but we made many 10-shot groups at that range which measured less than one inch, in which 6 to 8 bullets often would form a dime-size group.

Mr. Niedner told me that the first rifle of this caliber and type using the .32-40 necked-down case was made for Linwood Lewis in 1907 or '08. Lewis was then one of the expert riflemen at Walnut Hill Range; probably the second rifle was for Niedner himself, as he was greatly interested in its development and perfection before Dr. Mann, myself and others had got him interested in developing the .25 caliber Krag high-velocity cartridge and rifle. Niedner made one of these rifles with the Stevens No. 44½-49 action and a No. 2 Winchester 30-inch nickel-steel barrel, originally chambered for the .22 Winchester R. F. cartridge with a 14-inch twist of rifling, for the Rev. I. James Mead, an expert rifleman who shot at Walnut Hill Range under the name of "I. James." With this rifle the Rev. Mead shot a number of nearly perfect scores on the Standard American 12-Ring Rest Target, using a telescope sight. A few months after securing this rifle he died suddenly and my friend and shooting partner, Mr. F. J. Sage, purchased it from Niedner who had it for sale for the Mead estate. Sage used this rifle about three years for target work and shooting woodchucks and then sold it to me, as he had decided that the .25 caliber Krag cartridge in a single-shot action was considerably better for his use.

I used that rifle for more than ten years and have records showing that during the years Sage and I together owned it we shot it fully 25,000 times, and there was *no erosion* of the bullet seat after all that use. Why not? In my opinion, the base-band bullet which completely sealed the bore before each shot, answers that question; it is also possible that the use of the graphite-vaseline between the Leopold "Oleo Wads" back of the bullet also helped prevent erosion. Some reader may say that the velocities and pressures were not high enough to cause erosion. To answer that, a report of the velocity developed by some of the different loads we used is given herewith. On July 19, 1914, Mr. Sage and myself motored to the United States Cartridge Company's plant at Lowell, Massachusetts, where Mr. "Jim" Burns, then the ballistic engineer, chronographed the following loads in the rifle mentioned:

Load No. 1, U. M. C. 7½ primer, 25 grains weight of "1914 Pyro" smokeless, Oleo wads and graphite-vaseline lubricant in neck of each case, 60-grain Niedner base-band bullet breech-seated 1/16-inch ahead of case, at 153 feet gave a mean velocity for 5 shots of 2747 feet per second.

Load No. 2, the same primer, 22-grains weight of "1914 Pyro" smokeless, Oleo wads and graphite-vaseline lubricant in case, Neidner 60-grain base-band bullet breech-seated as before, gave at 153 feet a mean velocity for 5 shots of 2390 feet per second. The thermometer registered 70 degrees F. and the barometer stood at 30 inches.

Again on August 26, 1916, at the U. S. Cartridge Company's plant in Lowell, Mr. Burns chronographed the following loads in the same rifle:

Load No. 3, 7½ U. M. C. primer, 23 grains weight of DuPont No. 15 smokeless powder, Oleo wads and graphite-vaseline lubricant in case, 60-grain Niedner base-band bullet breech-seated 1/16-inch ahead of case, gave a mean velocity for five shots of 2910 feet per second, at the same distance.

Load No. 4, No. 8 U. S. Ctdg. Co. primer, 25 grains weight of DuPont No. 15 smokeless powder, Oleo wads and lubricant as above, with the 60-grain bullet breech-seated as before, recorded a mean velocity for five shots of 3310 feet per second. The thermometer on this day was at 80 degrees F. and the barometer 30.4 inches.

The Company had no pressure gun for this cartridge, and the pressures developed by these different loads could not be taken, but the primers indicated pressures like those obtained with the .30-06 National Match cartridges of those days. Therefore both velocities and pressures certainly must have been high enough to have developed erosion of the bore in ten thousand shots or less, but as before stated we could not discern any after the rifle had been fired 25,000 times. After these tests I very foolishly had this rifle rechambered by Niedner for his .22 Magnum cartridge, which after extended tests failed to give nearly as fine accuracy as we had obtained with the original .32-40-22 H. V. cartridge. Why does not a rifle-crank have sense enough to let well enough alone when he has an especially accurate rifle?

I have always regretted that we did not have the velocities chronographed with both the 70- and 80-grain bullets and the various loads for them, but we failed to do so as we used the 60-grain bullets principally in both target work and shooting woodchucks, until about five years before I had the rifle rechambered. Then I bought a Niedner bullet swage and core mold and thereafter made my own 60-, 70- and 80-grain bullets. On windy days I found the 70- and 80-grain bullets better for woodchuck shooting as they were less affected by cross winds, and had fully as good killing power as the 60-grain bullets even though the velocities were somewhat lower. At ranges of 200 yards and over the heavier bullets proved better killers than the lighter ones. I never used many of the 80-grain hollow point bullets as they were too much work to make, but the solid lead, small flat-point bullet was the best on windy days, and gave smaller groups and better average accuracy at 200-yard rest shooting. Because of its high velocity the 60-grain bullet was but little affected by the average wind at 100 and 200 yards, but with winds around 18 to 20 miles velocity it could not hold its own with the 70- and 80-grain bullets at that range.

This rifle with the loads noted in Nos. 1, 3 or 4, or the corresponding loads with the 70- and 80-grain bullets, was a fine combination for shooting woodchucks at ranges up to about 250 yards, as these high velocities gave splendid killing power, and *(Continued on page 38)*

RIFLE TRAINING MANUAL

THE FOLLOWING *is a condensation of a new NRA manual designed to provide rifle clubs with a standardized course of instruction for the conduct of small arms firing schools. It is intended for use with .22 caliber rifles, as an aid in preparing civilians for military or other armed service. Available through NRA book department.*

BASIC PLANNING

Many well intentioned individuals and clubs have undertaken small arms firing schools in their communities but have given up because of a seeming lack of interest. On the other hand some schools, conducted in the same kind of community, have attracted large enrollments. Why?

The answer is—differences in Experience, Planning and Personalities. It is the purpose of this manual to supply the benefits of Experience, furnish a complete instruction Plan and point out types of Personalities that make the best instructors. Today as *never* before the American people *want* to learn about firearms, how they are made, how they function, how they can be used safely and accurately. To get people to attend a small arms firing school certain things must be done—

(a) They must be *told* a school will be held.
(b) They must be *assured* of competent instructors.
(c) They must find the sessions *interesting*.
(d) They must feel they have made *tangible progress* in knowledge and ability each session.
(e) They must have a definite *goal and reward* to attain at the end of the school period.

Successful small arms firing schools are those which meet those requirements. Let us examine the essential details in organization and conduct of a successful school.

(a) The Public Must be TOLD

The first thought is usually "we must get a piece in the paper". In a small town that is a good idea. In a larger town if the editor "goes to town" facilities are so swamped at the first session that prospective students get tired waiting and go home. Arrange little talks at luncheon clubs, association meetings and lodge halls. This *personal* method of telling the community serves two important purposes—

(1) It makes it possible to enroll just the number available instructors can handle properly.
(2) It enables setting up classes of men accustomed to associating together, who have common interests.

(b) The Public Must be ASSURED

The prospective student wants to know, "Will I waste my time?" Probably most citizens of the community never knew a rifle club existed in their midst; that the National Matches are one of the largest sporting events in America; that the Army has for many years conducted a school for small arms instructors at those matches; that the National Rifle Association is recognized by Congress and the War Department as the national civilian small arms training organization; that NRA training courses follow the identical pattern of our military riflemen, and that a standard NRA instruction manual will be used in the local school.

(c) Students Must Find Sessions INTERESTING

The instructor who complains that people in his town can't be interested in shooting should realize that the trouble lies with *him and his methods*. How is interest to be maintained? Physical characteristics have nothing to do with it. The personal things that *do* matter are courtesy; a sincere interest in each student's progress; patience; the ability to press steadily forward along a logically planned course, and the ability to handle any situation without a display of temper or excitement.

(d) Students Must Be Conscious of PROGRESS

There are many ways of impressing a student that he *is* making progress—a word of commendation or asking him to demonstrate. The good instructor studies his pupils and sees that each is made to feel he is making *just the right amount* of progress to keep him interested.

(e) Students Must Have a GOAL

Few people have the will power to continue work or study unless some *tangible* reward comes into sight after a short time. There are three excellent incentives—

(1) Qualification badges.
(2) A School Championship Match.
(3) Certificates of Attendance.

It should be explained to all students that *nationally recognized* NRA qualification insignia will be awarded to those who make the necessary scores and that every student who completes the course without missing more than one lesson will be awarded an *official* NRA Certificate indicating he has completed a course in small arms instruction.

ADVANCE PREPARATION

Careful advance preparation is essential to the success of a community small arms firing school. Advance preparations include (a) range equipment and (b) personnel.

(a) Range Equipment

1. *Accessibility:* The range may be indoors or outdoors but it must be accessible.

2. *Cleanliness and Comfort:* People just becoming interested in shooting are accustomed to the reasonable comforts found in tennis, golf, swimming and bowling. An hour or two spent with a broom or rake and a little paint will make a world of difference. Indoors, provide ample light, ventilation and heat.

3. *Adequate Space:* Proper instruction requires two people at each firing point—the "coach" and "pupil" (both are actually students)—plus room immediately behind the firing line for the Instructors. A minimum width of five feet should be allowed for each firing point.

Do not accept more enrollments than can be comfortably handled—increase the number of *classes* but limit the number in *each* class. The maximum number of students in any one class may not exceed two for each firing point.

However, if space makes it possible to conduct "classroom" work where it will not interfere with firing line activities two classes may be conducted simultaneously with one reporting an hour early, completing its classroom work and moving up to the firing line.

4. *Efficient Equipment:* Equipment must be inspected and placed in perfect condition prior to *each* session.

5. *Safe Facilities:* Students must be taught safety habits *while attending* school. Take care of any weak spot in the backstop, unprotected windows and doors; put up more safety and warning signs; if there is a question of an outdoor backstop being high enough *set up a new firing line* at only fifty feet.

6. *Inspection of Rifles:* Inspect any rifles students may own. Some will be satisfactory for school use. Some erroneous ideas can be corrected *before* the first session. This will give a practical demonstration of safe gun handling to the very students who need it most. LOOK OUT FOR GUNS BROUGHT TO THE RANGE LOADED.

7. *Equipment Required:* This equipment table assumes issue of individual rifles and coats if convenient—
For each Pair of Students:

1—Firing Point with carrier or frame and "fork".
1—Loading Block.
1—Rifle, complete with sling.
1—Sandbag rest.
—Targets: 2-bull 50-yard for outdoors; 5-bull 50- (or 75-) foot for indoors. Number to cover instruction, qualification and Championship Match.
—Cartridges: To cover instruction, qualification and School Championship Match.
1—Shooting Coat. Sponge rubber pads may be used.
2—Note books. One for each student.

For the School, regardless of size of class:

1—Bulletin Board for posters, bulletins, displays.
1—Desk and Chair for school "office".
1—Set of Instruction Charts. } (Obtainable
1—Scoring Plug Gauge. } from the
1—Trigger Test Weight, 3 lbs. } NRA)
1—Rifle Rack to accommodate all rifles.
1—First Aid Kit to repair cuts and blisters.
1—.30/'06 Springfield Rifle } (not essential)
1—.30/'06 Enfield Model 1917 }
—Registration cards (obtainable from NRA)
—Reserve supply of ammunition and targets.

For each Instructor regardless of size of group:

1—Winter Sighting Device, or
1—Set, triangulation equipment.
1—Sighting Bar.
1—Cleaning Rod.
1—Screw Driver.

(b) Personnel

1. *What Makes a Good Instructor?* No man is a good instructor *just* because he is a good shot. Good shots should be used whenever possible because they automatically handle a gun safely and have prestige. BUT *unless the good shot will follow the standard method of instruction agreed upon, his services should be dispensed with in favor of someone who may not shoot so well but who will cooperate in instructing under the approved plan!*

2. *How Many Instructors?* The ideal arrangement is one Instructor for every pair of students but will scarcely ever be realizable in a school of any size. An experienced, capable Instructor can handle five pairs of students; an inexperienced, but willing Instructor can handle two pairs. *Determine the size of the class by the number of Instructors available.*

3. *The School Adjutant or Secretary:* Considerable "office work" includes—
(a) Maintenance of a roster of Instructors.
(b) Registration of students.
(c) Roster of Instructor and students in each group.
(d) Maintenance of records and Progress Charts.
(e) Preparation of notices and bulletins.
(f) Scoring targets.
(g) Ordering targets, ammunition, other supplies.
(h) Keeping financial records.
(i) Preparing reports required by the NRA.

4. *Public Relations Officer:* He should be a good "salesman"; a good speaker; a man who gets along well with local newspaper and radio men.

INSTRUCTORS' MEETING

The final step in preparing for the school must be a meeting of all Instructors. The Chief Instructor will outline the complete course, demonstrate equipment, charts and answer all Instructors' questions. A short meeting should be held before each session. Instructors should understand that the success of the system laid out in this manual has been due to three simple principles—

(a) Lectures explain in simple language *why* certain things must be done.

(b) Charts and demonstrations give a clear picture of how things should be done.

(c) Actual practice, plus correction of errors made by another student (coach and pupil system) develops in the student the habit of actually *doing* correctly the things that must be done to become a good shot.

CONDUCTING THE SCHOOL

Registration: Request the following information:

(a) Name, home address and telephone number.
(b) Occupation, business address and telephone.
(c) Age and Sex.
(d) Shooting experience.
(e) Reason for attending.
(f) Preferred class (day or hour) if more than one.

Length of Course: The approximate overall time for the instruction and record firing is 12 hours in six sessions of approximately two hours each. Sessions held weekly or twice a week are recommended.

Coach and Pupil System: Pairs are established at the first session and retained throughout the school. This develops a "team spirit".

Registration Fee: People expect to pay for anything worthwhile. A minimum fee of $3.00 is reasonable to pay for ammunition, targets, lights, probably awards and prizes. The exact fee will depend on the amount of overhead expense.

* * *

(PART II of this manual, next month, will condense actual instruction methods, including presentation of each point, guide lectures and instruction sequence.)

A PAPER FOR PEOPLE WHO SHOOT

Rifle Remington DU PONT News

BRIDGEPORT, CONN.
AUGUST, 1942

Possibles and Impossibles

by **FRANK J. KAHRS**

Early in July, 500 small-borers and pistoleers managed to get to Quantico, Virginia, somehow—probably 75 per cent came direct by train, bag and baggage. It was quite a sight to see the huge modern passenger buses of the Marine Corps draw up to the registration office and see the tired but happy shooters pile out. Yes, the Marines gave the visiting shooters fine service. As far as we're concerned, personally, we never saw a finer conducted basic training school and the two days of competition that followed on the range. The service was absolutely flawless. It certainly showed what you can do with an organization that is trained to accept and execute orders promptly and with the right spirit. Our hat is off to the Marines.

* * *

We recently returned from our annual visit to the West Coast of these United States. We found things in better shape than we expected. We thought we would find everybody on the alert and ready for the expected invasion by the Japs. Well, we found everything ready and everybody on the alert, but they were doing something else, too. For instance, we took in the shoot at Medford, Oregon, and found about the same attendance as usual, and then down at Richmond, California, we not only found a larger attendance than usual, but a big improvement in the range. The boys have removed a large slice of a hill nearby and widened the range so now we consider Richmond, California, as having a mighty fine place for a mighty fine shoot. We also took in the shoot at Portland, Oregon, but here the attendance was a little bit off, but that can be explained by the fact that they have quite a few shoots up there and a lot of the boys couldn't get away. It wasn't because they didn't want to shoot. On our way back, we stopped off at Des Moines, Iowa, for the two-day shoot there and the attendance was about normal.

* * *

More and more, we're convinced that if every rifle club and every rifleman will utilize his time, his interest and his energy in training those who do not know anything about rifle shooting to become good shooters, it will be a real service to the country—as valuable as if that instruction were being given in the training camps.

* * *

It makes me feel pretty good every time I hear of some well-known small-bore shooter who is serving his country in the capacity of a rifle instructor or whatever they call those who are teaching others about rifle shooting. There must be at least 25 of our well-known small-bore shooters who are now serving in the army as officers in training camps and specializing in rifle shooting. There will be many more before this thing is over. We understand also that all of these boys are doing well in a big way. We are also told that men who enlist or are inducted into the army soon become noncommissioned officers as soon as the company commanders learn that they know how to handle a rifle and how to shoot it. In other words, promotions are in order for those who know how to shoot.

* * *

You see many funny sights when you are touring these days (providing, of course, you can find the rubber and the gas). On our way to the eastern Small Bore Matches in Quantico recently, we passed one gas station whose proprietor had a sense of humor. He had hung up a sign which said "No Gas—Gone Fishing." We envied that fellow.

AN AMERICAN TRADITION THAT SAFEGUARDS ALL AMERICAN LIBERTIES

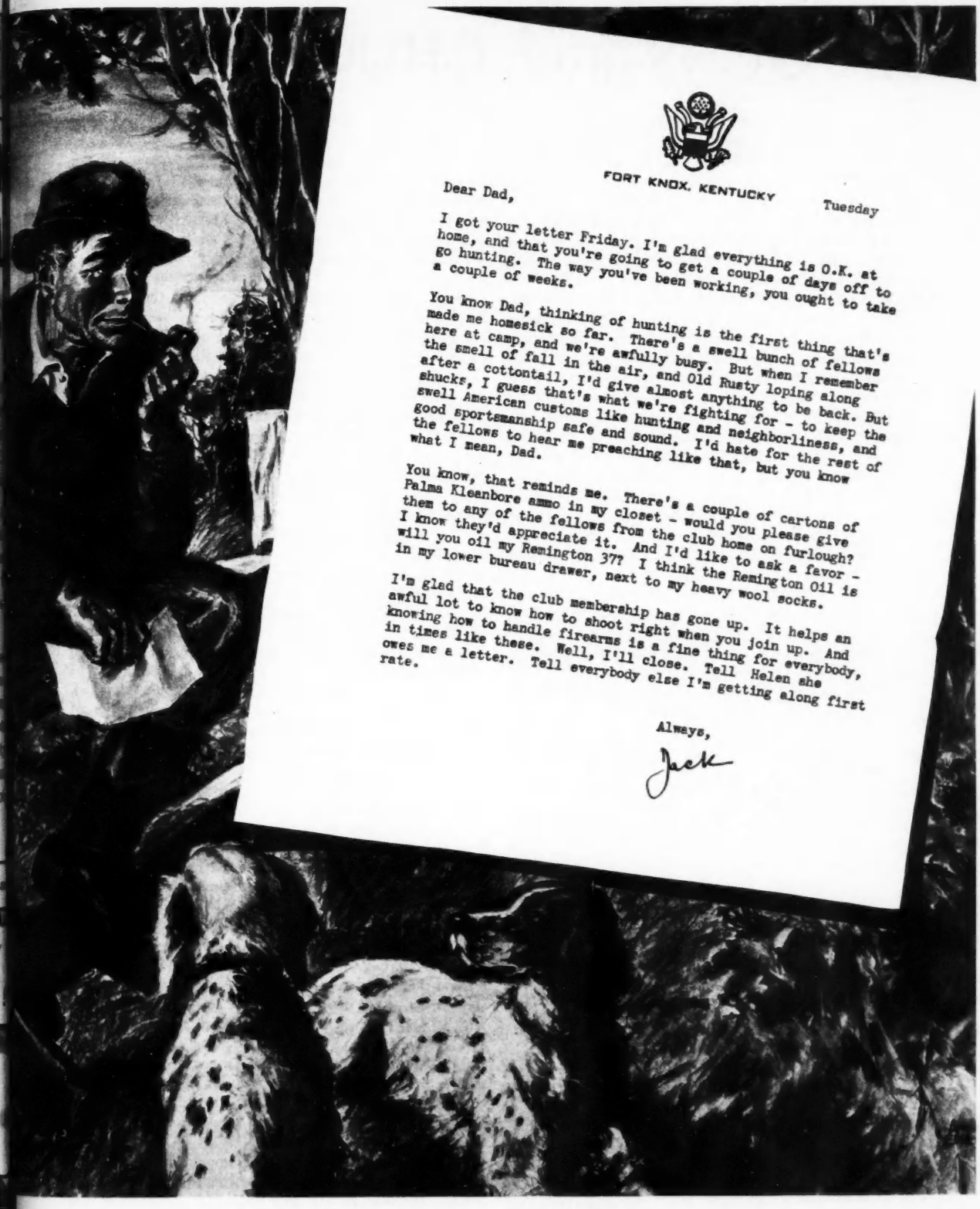
Today, America is a great land of cities, villages and farms. Many of our people have never held a rifle in their hands. Yet deep down in every red-blooded American is the love of a good gun. This almost hereditary regard for shooting arms goes back to our very beginning as a nation.

So well accustomed were Americans to owning and using their own guns that the right of every citizen to bear arms was written into the Constitution. Free shooting for everybody, whether at targets or game, is a traditional American privilege that has had much to do with developing and building our country.

Today, this right to shoot a gun is a vital necessity. From the ranks of over a million target shooters come the marksmen and instructors who are helping make America's armed forces straight shooters and deadly shots. Every rifle shooter, whether he is called for active duty or not, can feel that by embracing this right to use a gun he is contributing to the safety and security of all our cherished democratic liberties.

THERE'S ONE IN EVERY CLUB—*The Bullet Kid*

SMACK
FROM THE SCORES HE GETS - HE MUST BUY HIS AMMUNITION BY ITS FLAVOR!
HE SAYS IT HELPS STEADY HIS NERVES. THE WAY HE'S ALWAYS BORROWING THINGS I THINK HIS NERVE IS OK BY ITSELF!
IF HE'D USE PALMA KLEANBORE* .22's HIS GUN WOULD STAY CLEAN AND HE COULD SAVE HIS LICKS FOR WAR STAMPS


FORT KNOX, KENTUCKY
Tuesday
Dear Dad,
I got your letter Friday. I'm glad everything is O.K. at home, and that you're going to get a couple of days off to go hunting. The way you've been working, you ought to take a couple of weeks.
You know Dad, thinking of hunting is the first thing that's made me homesick so far. There's a swell bunch of fellows here at camp, and we're awfully busy. But when I remember the smell of fall in the air, and Old Rusty loping along after a cottontail, I'd give almost anything to be back. But shucks, I guess that's what we're fighting for - to keep the swell American customs like hunting and neighborliness, and good sportsmanship safe and sound. I'd hate for the rest of the fellows to hear me preaching like that, but you know what I mean, Dad.
You know, that reminds me. There's a couple of cartons of Palma Kleanbore ammo in my closet - would you please give them to any of the fellows from the club home on furlough? I know they'd appreciate it. And I'd like to ask a favor - will you oil my Remington 37? I think the Remington Oil is in my lower bureau drawer, next to my heavy wool socks.
I'm glad that the club membership has gone up. It helps an awful lot to know how to shoot right when you join up. And knowing how to handle firearms is a fine thing for everybody, in times like these. Well, I'll close. Tell Helen she owes me a letter. Tell everybody else I'm getting along first rate.
Always,
Jack

...AY, Remington manufacturing facili..., experience, and research are being ...lied to one task: winning the war. For ... years this Remington combination has ...nt ever-improved sporting arms and ...munition. It made possible such out...nding developments as Kleanbore Hi...ed .22's, Palma Kleanbore and Target...ter match ammunition, Remington ...ter-fire cartridges with soft-point Core...t bullets for amazing hitting and stopping power, and accurate, dependable Remington guns. Every hunter and target shooter can take pride in the fact that the sporting arms and ammunition industry he helped build and maintain is contributing so substantially to victory for our country. . . . When peace returns once more, our production will again be dedicated to the needs of the marksman and hunter. Remington Arms Company, Inc., Bridgeport, Connecticut.

Remington

DU PONT

"Palma," "Kleanbore," "Targetmaster" are Reg. U. S. Pat. Off. "Core-Lokt" is a trade mark of the Remington Arms Co., Inc.

SIX-GUNS *and* CHUCK GUNS

By GERALD AVERILL

THEY SAY THAT ALL A YANKEE NEEDS to keep him contented is a sharp jackknife and a straight-grained piece of punkin pine. It kind of looks as if some of us along the Atlantic Seaboard might do a lot of whittling this Fall. Ammunition scarce, new guns just something on the pages of a catalogue, no tires and very little gas. But there still are places where a few second-hand guns are circulating, and if a guy is so-minded he can lay aside his whittling and tinker on something worth while.

A couple of years ago my heavy-barrel Officer's Model began to show signs of holster wear and I started looking around for a .45 to use as a work gun. I found guns enough, but the prices asked were something scandalous and I refused to be robbed. I spent some time sleuthing before I heard about a shop not too far away that was doing an enormous business in second hand firearms of all kinds. The shop was finally located, but it was run by a tough Yankee trader that had the reputation of having never been beaten in a deal. He had the stuff too, but I could see nothing that I could afford until I got my eye on an old 1909 Army Model S. A. Colt .45.

It was a mess. Somebody had plastered the cedar grips with cheap varnish, and in so doing had liberally smeared the frame. The trigger had about a nine-pound pull, the main spring was stiff enough to catapult a plane off a ship's deck, and the front sight was a thin dab of metal that seemed to have been stuck on without regard for convention. *But,* it had a good tight cylinder and a perfect barrel—price ten bucks with a box of shells and a holster thrown in.

As purchased, the gun shot about three feet high and two feet to the left at twenty-five yards, which was about what I expected.

Now, out in the village of West Newfield there dwells a gentleman by the name of Carl Ross. He has a little shop, some very fine tools, the traditional gunsmith's disposition, and does his deer hunting with a 45-70 Sharps-Borchardt. So I called on Mr. Ross and went into a lengthy conference with him regarding a front sight. Like most gunsmiths of my acquaintance, my friend has certain eccentricities—if he didn't have them, he wouldn't be a gunsmith. Any of you gentlemen who have had dealings with members of the profession who are on the shady side of sixty and who continue to hunt with Sharps-Borchardts will know what I mean.

Well, after several more conferences and a little gentle persuasion, the Colt blossomed out with a neat front sight made from the ramp of a Stevens rifle and a blade of German silver. Ross made the blade plenty high, and we filed it down as we shot until it was just right for elevation. Of course the trigger pull had been changed and the main spring lightened.

Everything was proceeding according to plan when all of a sudden a Russian popped up in the shape of that old case-hardened receiver. We couldn't find a thing that would touch it, so we couldn't cut the rear sight notch over. I puzzled over that problem for a week or so, and then I happened into a garage where another friend of mine was doing some electric spot welding. Right there I had a brain storm, took a chance and it worked. We put the gun in a vise, cleaned the top of the receiver carefully, filled the space between the cocked hammer and frame with asbestos paper, and then I turned around and shut both eyes while the mechanic touched the rear sight slot with the rod and filled it plumb full of metal. Next day I smoothed the filling off even with the top of the frame, took the gun down to the gravel pit, cut me a new rear sight notch over to the right, and inside of twenty sighting shots, I had me a right smart shooting .45. It will do anything that *any* .45 Colt with a 5½-inch barrel will do and it's hard telling how old the gun is. After cleaning the varnish off the old one-piece cedar grips, I found regimental or troop marking stamped on several places in the wood, which indicates that it was an army issue. I pity the poor cuss that had to use it the way it was.

Twenty years ago, in a burst of extravagance, I bought a new Model 1904 Winchester S.S. .22 caliber rifle. Most of us who are over forty can remember that model and its popularity. We can also remember the crude open sights, the peculiar stock, shaped like a leg of lamb, and the trigger guard extended and curled to form a sort of pistol grip. As time went on, its contours changed. The trigger guard extension was cut off, quantities of Plastic Wood were used to change the shape of the stock and produce a real pistol grip. A Lyman globe replaced the original front sight and a tang sight fastened with wood screws went on the rear. I never was much of a small bore enthusiast but it wasn't long before I began to realize that this little gun could shoot some mighty fine groups, especially with Western Marksman Lesmok cartridges. But then I got interested in the pistol game and ceased to shoot it much. It kicked around the house and camp until my small son got old enough to be interested, and I cut three inches off the butt so he could use it. When his arms lengthened, I glued the piece back on again. The boy, now a corporal in the Para-marines, learned the rudiments of rifle shooting with it and ownership passed to my daughter, who in turn learned to shoot with it, and claimed it as her own until she died.

There were times when the kids were careless. It had several bad attacks of rust and at one time I thought salt water had ruined it. For the past two years it stood neglected and full of grease, that is, until a few months ago, when I cleaned it up and made another trip out to see Mr. Ross.

I have had a new Weaver 29-S scope on hand for over a year-and-a-half. I bought it to mount on a light .250 Savage, but due to my own stupidity and that of the dealer who sold it to me, the receiver was drilled for the wrong set of mounts that came with it, and I had to give up the idea.

Mr. Ross was cordial and very encouraging. It was a simple matter indeed to fit a new bolt handle, mount

the scope and make a few more improvements, so I hustled home, traded amounts with Mr. Weaver and entered into an extended series of conferences designed to speed the good work along. There was to be a new fat forearm, some additional weight, but ten days ago the chucks began to show up in the fields and I couldn't wait for any extra refinements. The scope got mounted, and the bolt handle partly finished, and that is enough for now.

I have always been very partial to a certain brand of high-speed hollow-point .22's for vermin shooting, but when I tried to buy it there just wasn't and isn't any to be had, so I had to substitute 500 rounds of Peters H.V. Filmkote hollow-point. It was windy when I sighted in and I had quite a time for myself. Like most amateurs I made the mistake of sighting in at 100 yards with the result that during the next few days I overshot everything. The ammunition seemed to be pretty accurate, so I cut some 6 x 3½-inch woodchuck silhouettes out of cardboard, straddled off seventy-five paces from the firing point, which ought to bring the range to somewhere around sixty-five yards, and went to work.

Now there is one thing that I can always be sure of, and that is the fact that whenever I want to sight a rifle or pistol in, the wind is always sure to come up and reach gale proportions. Last Sunday morning was beautifully calm, not a breath stirred the leaves or rippled the waters—that is, not until I had my target set up and got ready to shoot. By the time I had settled myself in a comfortable sitting position the wind was bending the trees, driving dust into my face and shoving that gun barrel around until I was nearly helpless. I retired to the shelter of the car, rolled down a window, placed a coat across the wabbling glass and did the best I could. After I had come down to the correct elevation and one click to the right, I put up a new target and threw ten shots into the darkened 1½-inch center area of the chuck's head. Went down to take a look, hurriedly counted only nine shots, went back and took another shot to make up the ten, tried too hard and pulled it out of the group. I fired again, got into the group and on counting up found that I had twelve shots on the target and that the first ten had all gone into that 1½-inch group.

I know a *good* rifle will make one-inch groups at a hundred yards, but taking all things into consideration, the old wreck seemed to be going fairly well, and demonstrated its ability to hit a woodchuck at that distance, anyway.

This afternoon I lay upon a little hummock watching a bright green patch of grass, eighty-five paces a little below and across the meadow. Somewhere in that grass there was a hole and in that hole was the grandfather of all woodchucks—a wise red-whiskered old patriarch that I have known intimately and cussed fervidly for three summers. The first year, he offered me a fair shot with the Officer's Model at forty-yards. I missed and dusted his belly with .38 wad-cutters as he scrambled for his den. That same spring I stunned him with a shot from the .250 and threw dirt in his face twice within a week. Last year I tried him three times with the .250 at between 250 and 300 yards and from then on he would duck into his den every time my car came to a stop. He dodged me again today and I decided to have the feud over once and for all, a clean kill or nothing, I resolved that if I had one fair shot and missed I'd never shoot at him again.

So I sprawled on my stomach in the grass for three-quarters of an hour with my eyes fixed on that green tuft, watching for those red whiskers to show up. I finally saw the tip of an ear through the scope, then an eye and after a full five minutes of waiting, I could see his head and part of his neck above ground as he watched my car over on the highway. His head was nearly hidden by the grass and I froze in anticipation of the moment when he would turn and look in my direction. Ants frolicked up my shirt sleeves, my neck began to ache and my glasses fogged. Just as I thought I *must* move my head to ease the cramp in my neck muscles, he turned toward me and his head and chest showed clear and bright in the glass. The cross-hairs settled just under his nose and as the shot snapped across the valley, I heard the thud of the bullet on solid flesh. He disappeared in a flash, and I began unjustly to cuss that new ammunition, as yet untried as to killing qualities—unjustly, because I found him stone dead at the entrance to the den, a tiny hole in the center of his body, just above the rib structure. He was old and battle-scarred, with one old bullet burn across his shoulders, another down the left side of his head, and a third on his right hip.

I'm kind of sorry, now, that he is gone, but I be doggoned if I don't believe I've got me a good short range chuck rifle!

". . . just then he turned toward me and his head and shoulders showed clear and bright in the glass."
W. A. Riegel Photo

Any Alibis?

THRASHING OUT THE WOES OF THE HANDGUNNER . . .

How much good is target work in training the police officer?

THIS BRIEF ARTICLE is intended to convey only my idea on a controversial subject, namely—"Is target shooting beneficial and practical for a police officer?"

In every line of endeavor certain fundamental principles must be mastered before maximum proficiency can be attained. There is no part of an officer's training in which this is any more true or necessary than in his training to shoot straight and fast. Notice that the "straight" comes first. If he can't shoot straight there is no sense in his shooting at all.

The fundamentals of straight pistol shooting are grip, sight alignment and trigger squeeze. Other things play a part in the correct placement of a shot but these are the basic elements and I believe their maximum development is encouraged by target shooting. It is this type of shooting which develops reflexes, coordination of eye and muscles, ability to call a shot, ability to know how many shots have been fired and later the ability to fire shots rapidly and accurately.

A police officer should begin his shooting in the same identical fashion as anyone else. That is with "slow fire." When shooting this slow fire he needs a definite aiming point. That means the aiming point can't be too large or the instructor has no way of telling the size of the group the pupil is able to make. The standard bullseye is the answer to this need.

As the shooter progresses in this training and becomes capable of making better groups and groups properly centered on the target he naturally wishes to have a measuring stick of his ability. He also wishes to have some means whereby he is able to compete against other officers. The scoring rings of the bullseye target give the answer to these two needs.

One of the greatest dangers to be guarded against in the training of police is their desire to take up fast shooting too soon. Fast shooting is a most necessary part of an officer's training, no one believes that any more than I, but no one can shoot fast and get a large percentage of hits on the target he is aiming at who did not first learn to shoot accurately when he was shooting with all the time he wished. No officer should attempt to advance from slow fire shooting until he can keep all his shots on a 25-yard target "center" at ranges up to and including 50 feet.

The type of shooting done with a pistol by an officer in line of duty may be described as "combat firing." This is firing at short ranges, not exceeding 10 yards on man-size targets, under such time limits as will preclude taking deliberate aim, which also will necessitate the drawing of the weapon from a holster in addition to calling upon accurate double action work and so-called hip shooting. This combat firing practice has a proper and important place in the training of a man who may be called upon to use a gun in line of duty. But practice firing of this kind is a post graduate phase of target shooting and should not be indulged in until a man is thoroughly indoctrinated with the principles of good marksmanship, i.e., *safety*, grip, sight alignment and trigger squeeze.

Combat firing practice will develop a fast, dangerous man at short range (3-10 yards) and can be varied in countless ways limited only by considerations of safety and ingenuity, but it will not develop in a man the ability to pick a mark even of man-size at 50 yards or more and fire with reasonable certainty of getting a hit. Neither will it take on the occasional monotony of target shooting, nor develop in a man the ability to follow a rapidly moving target on a crowded street and to fire one telling shot. Such ability is not often needed but when the necessity for it arises no swift miracle can be expected to occur and only thorough training in the fundamentals of pistol marksmanship can qualify a man to confidently and successfully meet such an emergency.

The question that next arises is "How much target shooting will qualify a man to practice combat firing?" Here individual proficiency and ability play a large part and only the instructor can determine when his pupil is ready to advance to the next phase of training. But I believe he should be able to qualify at least as Marksman over a recognized military or NRA course, then advance to deliberate fire on silhouette targets at 50 yards, and follow with bobbing targets at 25 and 50 yards. This shooting should be from the prone and sitting, as well as from the standing positions, so that the pupil will be trained to take advantage of available cover. He should now be ready for his course in combat firing.

Even though the officer is ready now perhaps for a new type of training, by no means should he give up entirely his former "target shooting." All through the years he practices "combat firing" he should frequently return to the stationary target range to check up on his "fundamentals." Maybe he will develop a fault in the faster firing that will not prevent hits being made, but if the fault is corrected it will result in a larger percentage of hits than before—or better hits.

This type of practice, as previously stated, will be double action work entirely and the pupil will have to be instructed in the proper technique of this type of shooting. For this reason some critics have considered target shooting by a police officer as being of little or no value, but in my opinion any training which will give him a broader knowledge of and increase his dexterity in the use of the tools of his profession is not wasted, and thorough training in the fundamental principles of marksmanship is the determining factor which, in the final analysis, determines his ability to hit a target whether it be paper or human. These fundamentals are most thoroughly learned in our target shooting practice, and are merely put to a more practical type of practice in our combat firing work. The really valuable man will be well trained in both types of shooting and there can be no room for argument when we ask "Is target shooting beneficial and practical for a police officer?"

Of course it is.

Walter R. Walsh

The Old Coach

NAIL DRIVING MARKSMANSHIP

JUST RECENTLY A VERY HIGH ranking Army officer remarked to me that rifle marksmanship was no longer necessary; that the time taken to teach it was wasted; that with the superb Garand rifle and Winchester carbine all that was necessary was to point and pull the trigger fast, and troops could lay down such a thick sheaf of fire that nothing could come through it.

It seems to me that an officer who has formed such an opinion has entirely lost the viewpoint of the fighting man—the Infantry soldier. If the Infantryman, or any other soldier for that matter, does not believe that with his weapon he is superior to his enemy he will not willingly and energetically advance in battle. He loses his aggressiveness, his eagerness to fight, and indeed his courage.

Automatic arms have not decreased the need for skill in shooting. They have merely increased our strength when we are pitted against an enemy who does not possess automatic arms, and then only when we are skilled in the use of them. Cases where the enemy charges in dense lines, a fair target for a sheaf of fire, no longer occur in modern battle. Tactics of today teach that such an advance in dense lines is suicidal.

No. We of the N. R. A., the Infantry of the Regular Army, and the Marine Corps believe that we cannot have too much skill in the use of our arm. Our soldiers must be able to hit, hit quickly, repeatedly, and at as long a range as possible. We stand for training in "nail driving" marksmanship such as we see at Camp Perry and in small bore matches, not because such refined marksmanship is possible in war, but because it inculcates, drums in those principles which assure our hitting instead of missing within modern battle ranges. We favor every refinement in arms, ammunition and shooting methods which will increase the probability of hitting under the excitement of battle.

At the outbreak of the war we had developed this "nail driving" marksmanship to a very high degree, and we had also developed methods whereby we could teach any man physically fit to be a soldier to shoot well in a short time. We may now be at a standstill in these matters because of a lack of arms, ammunition, and facilities (not to omit gasoline) for such training and practice. It may be some years before we can again resume our fine marksmanship. In the meantime there is danger that we may forget how we did it. So it is well to enumerate some of the details which enabled us to reach the high degree of skill we attained last summer.

First there is the matter of arms. Thirty years ago a favorite expression among writers who did not shoot was "Any rifle will shoot better than the average man can hold it." A perfectly asinine remark because the average man cannot hit the broad side of a barn. No rifle has yet shot as well as a man can train himself to shoot, and no man can long take interest in a weapon that is not at least nearly equal to his skill. Small bore experience has shown that a man who really tries can hold and aim and squeeze with an error of less than a minute of angle, and no rifle has yet consistently averaged such accuracy, although our latest rifles and ammunition have approached it very closely. An accurate rifle is a constant challenge to one to obtain its full capabilities, and in any effort to develop fine marksmanship the rifle and its ammunition loom up as the most important factors.

I go back in both memory and experience to the period when our best military arm was the old .45-70 Springfield, our typical hunting rifle the lever action repeater, and our best target rifle the muzzled loading Pope. With the Springfield we learned that the best score we could hope for was about a 45 out of 50 on the 20-inch bull at 500 yards, but that due to the curved trajectory we could not be sure of striking the head and shoulders of an enemy much beyond 150 yards. The lever action repeater likewise was not sure on deer beyond 150 yards. But the fine Pope rifles taught us that we could, with brains and practice, learn to surely group in a 2½-inch circle at 200 yards, although the curved trajectory and wind drift prevented our utilizing this accuracy except at known distance target shooting. About 150 yards was the longest distance in those days at which we could surely hit a man over estimated distances.

No rifle is any better than its ammunition—its bullets and powder. Jacketed bullets and smokeless powder gradually permitted us to extend this sure hitting range. The Krag was a first rate military arm, and a far better sporting and target arm than the average weapon of its day, but it was not until we had developed good bullets for it, and the Laflin and Rand "W-A" powder, that we found out what it would do, and then we extended our sure hitting range to almost 300 yards—estimated ranges of course for we used to make many a possible with it at 600 yards in known distance target shooting. The flatter trajectory and better wind bucking qualities of the .30 Springfield and Garand have recently extended this sure hitting range, and here we stand at present so far as military rifles and military shooting are concerned.

With respect to rifles I would like to record the gradual development and perfection of the rather heavily barrelled bolt action rifle; of its sights, particularly the receiver-mounted aperture sight and the telescope sight; of the minute of angle system of sight adjustment, and of the stock of the type now commonly used by the small bore target shooter with its gunsling.

Remembering that no rifle is better than its ammunition, I must also record improvements in bullets and powder, and I am not so sure but that these have played a greater part in the development of "nail driving" shooting than the improvements in rifles. Our large ammunition companies are handicapped in their development of bullets which must fit and be safe in any old rifle of that caliber. But our custom bullet makers have not been so restricted and they could produce bullets designed for use in close to standard gilt-edge rifles only, and certainly such bullets have recently shown a very considerable increase in the degree of accuracy obtainable. So also have the Palma Match bullets made by the factories for use in National Match and Bull Guns having close stand-

ard chamber and bore dimensions. In .22 Long Rifle caliber small bore shooters know that they obtain the fine accuracy that turns in possibles only with the special target lots of this cartridge for which they pay a slightly higher price.

The developments of the powder companies have also advanced our accuracy of fire. Twenty years ago our very finest accuracy was obtained with Hercules Sharpshooter powder. It is not generally known, I think, that the very finest accuracy at 200 yards was then obtained with jacketed bullets and Sharpshooter powder in .32-40 single shot rifles, the combination practically equalling that of the old Pope muzzle loading rifles, with all the advantages of fixed ammunition. And the little lever action .25-20 Winchester Model 1892 rifle, when fed with 86 grain jacketed bullets and Sharpshooter powder would almost equal the finest present day accuracy of our heavy barrelled 2-R's and Swifts. The newest series of du Pont powders with custom made bullets in the modern rather heavy barrel bolt action rifle is the combination that has gone the furthest towards "nail driving." Such combinations shoot steadily into almost a minute of angle. They are almost as good as a man can teach himself to be. These are some of the things that should be remembered if the art of fine rifle making lies dormant for the next five years.

From arms we must not forget to turn to training and shooting methods. I shall touch on this phase of "nail driving" marksmanship only briefly because I have covered it very fully in previous issues of this magazine, calling attention to the importance of the methods used as recently as the last (July) issue. The proper method of teaching and executing the trigger squeeze; starting instruction firing from a rest, and then proceeding to prone, sitting, kneeling, and standing in that order; all are necessary to rapid and sure progress. Minute of angle sight adjustment, a study of trajectory and wind allowance must follow. Uniformity of firing positions, quick catching of aim, rapid firing—all of these are important if we would retain our knowledge of marksmanship during the dark days that are ahead of us so we can revise them when the sun again shines. For there will always be need of riflemen in this country of ours if we are to preserve the peace we will surely win.

The First .22 HIGH POWERS

(Continued from page 29)

even when an animal was missed the bullets never glanced in case they struck a rock. Both Mr. Sage and I killed a large number of woodchucks with this rifle while we owned it.

As an illustration of the super-fine accuracy of the Niedner .22 caliber high velocity rifle and cartridge I refer the reader to an article by L. Lewis, published in the March 25, 1909, issue of *Arms and the Man,* under the title, "What a Little Gun Can Do," and giving an illustration of 11 consecutive shots at 200 yards rest, by Lewis, at the Walnut Hill Range. The target was fired on February 13, 1909, in the presence of several witnesses, one of whom may have been Niedner. The rifle that Lewis used was a Stevens Ideal No. 44½ with a 28-inch barrel, weighing but 6 pounds without the telescope, which was a 15-inch Sabin 4 power. His cartridges were loaded with 11 grains weight of "Sharpshooter" smokeless powder, the 6½ U. M. C. copper primer, and the 80-grain copper jacket base-band bullet with sharp point, breech-seated ahead of the case. Instead of using the graphite-vaseline lubricant in the neck of each case, he used ½ grain weight of Atcheson Unctious Graphite between cardboard wads. I have seen the original target several times and a copy of it is shown. Note that nine of the eleven bullets cut into one hole measuring $1\frac{1}{16}$-inch vertically by $1\frac{3}{16}$-inch horizontally, while the entire 11 bullets made a group measuring but 1⅛ inches on centers. Now show us your .220 Swift, .22 Varminter, .257 Roberts, .30-'06 or any other pet rifle that will make groups like this at 200 yards rest. Lewis sent me several 10-shot groups which measured from $1\frac{1}{16}$- to 1¼-inches on centers that he shot with this rifle at 200 yards with the 70- and 80-grain bullets, thus showing that the group illustrated was not a "freak" which could not be duplicated.

During the years that Sage and I owned the Niedner .22 caliber H. V. rifle mentioned neither of us made quite as small groups at 200 yards rest with it as the Lewis group shown, but we and our riflemen friends did make many very excellent 10-shot groups with it at 100 and 200 yards rest, some of which are shown with this article. We could be practically sure of making 2½- to 3-inch 10-shot groups at 200 yards rest, telescope sight, with our best loads and bullets any day when the wind was not over 15 to 18 miles velocity, and with winds of those velocities I could always get smaller groups at 200 yards with this rifle than I could average with my .28-30 Pope or .32-40 Winchester S. S. match rifles.

The reader will, no doubt, ask why Niedner discontinued this cartridge if it gave such fine accuracy? The answer is that after a few years he had so much work on hand, orders constantly coming in for rifles of other calibers, especially the .25 Krag and .25 Niedner-Springfield, that he could not furnish these .22 caliber base-band bullets, which required so much time to make and sold at $12.00 to $15.00 a thousand. He could not afford to make these bullets when he had so much other work that paid a higher profit, and the rifleman himself could not make them without buying a bullet swage at a cost of about $15.00, case-making dies which cost about the same sum, and a heavy arbor press costing about $60.00 with which to operate the swage and dies. Back in those days the shooters would not pay such high prices for bullets and reloading tools. I bought a set of Niedner case-making dies and a bullet swage, and had the use of heavy arbor presses in the high school machine shop for operating these swages and dies; therefore, I made my own bullets and cases and kept this rifle for many years after other riflemen had discarded them. I wish I had it right now.

With the prices that shooters are willing to pay today for good bullets, and with our present smokeless powders on the market, a rifle of this type chambered for the .28-30 necked-down case using those 70- and 80-grain base-band bullets would "go places," in my humble opinion.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

NORTHWEST INVASION

Editor, American Rifleman:

Having read the letter by Mr. Francis E. Sell, of Silverton, printed in your June issue, I'd like to chime in to say that he has something there. Almost anyone in the Northwest knows enough about a rifle to use it in a fairly effective manner, but I have seen some who truly must have been born with one in their hands.

An ancient Warm Springs Indian of my acquaintance, named Young Boyce, came through my camp on his way to get a deer. I was curious about the old rifle he carried and, when he let me examine it, I found just one shell in it. I asked him if that was the only shell he had along. He replied, "Yes. Just want one deer." A short time later he came back with his deer.

I knew a fellow in the Olympic Mountains who was a regular old wood rat. I was out with him one day when he spotted a cougar a hundred feet away when the animal was hiding in such a way that just one eye—no more—was showing through the brush. I could hardly see it even after he pointed it out to me. When the cougar made a flying leap for the protection of a boulder, old Lon caught it in midair with one shot, straight through the heart. And he was so sure that he just stood there and took his own sweet time about reloading. You must see a cougar in a hurry in order to really appreciate such shooting.

Woe to the Jap who tries jungle tactics on a man like that.

But let's not overlook that four-ring circus of stalwart hunters from the cities, who come thundering into the woods every season, each equipped with a thousand pounds of useless camping equipment, hundreds of rounds of ammunition, and dressed like no other class of humans on earth. They go everywhere, but are careful not to get out of easy driving distance from a beer stand. They ask everyone they meet where they can get a deer. (I always suggest they try the woods.)

Out into the brush they go, quivering for the kill, and woe to the bug, woe to the leaf, woe to the squirrel, *and woe to the man,* that moves, for they will surely blast any moving thing.

I know of two who packed their stuff in with a burrow, tied the animal up, circled around, keen on the scent, and shot the burrow. Another shot a man off a white horse and claimed he thought it was an elk. Another two emptied their rifles at two gun barrels, sticking up over a log, and said they thought they were horns. Fortunately the owners of the gun barrels were behind the log.

At the end of a long hard day of hunting I asked one man if he had seen anything. He replied that he hadn't seen anything, but that he had got two brush shots; in other words, shot blindly into the brush at a sound there. "So," I said, "you shot at two men." He was very angry at the suggestion, but thoughtful, too. For all he knew he had shot at two men.

Turn a bunch like that loose on an invading force and the results will be terrific. There's no telling who will get killed, but there will surely be a lot of them. But any survivors of the invading force who reach home will whisper such stories of mad men loose with deadly weapons that any further tries at landings on our shore will be permanently discouraged.—*Eugene Field, Culver, Oregon.*

FOREIGN MATERIEL

Editor, American Rifleman:

Please start the re-subscription to include the June issue as I do not want to miss the conclusion of the article on British Ordnance. These articles have been about the most fruitful source of information I can find on foreign materiel, and I find official publications quoting THE RIFLEMAN frequently. Our own Ordnance Department is not too cooperative in disclosing information and a man has to find out somehow.

I would like to suggest that a few of the old-fashioned "homey" articles of the type written by Ashley Haines, Henry Walter Fry, Paul Jenkins and others be included in THE RIFLEMAN at times. I know that some of these men are dead now, but some modern prototypes exist. A lot of us who are in the Army and get no opportunity to shoot nowadays still like to read about reloading for the .38/55 Ballard or the .40/70 Sharps. Yes, you read that correct—we are in the Army and get no opportunity to shoot, strange as it seems.—*Frederick W. Beckert, 1st Lt., Fort Bragg, N. C.*

N. R. A. MEMBERS' MEETING

The 71st Annual Meeting of Members of the National Rifle Association for the election of Directors and for the transaction of such other business as may properly be presented will be held at the Hotel Mayflower, Washington, D. C., Friday, September 11, 1942, 8:00 p. m. All members of the Association have the privilege of the floor, but only Life and Endowment Members may vote.

Voting members who may not be able to attend the Meeting will again have the opportunity to participate in the selection of Directors by using the special form recently mailed to all Life and Endowment Members for the purpose of suggesting nominations to the Board of Directors.

The President has appointed a Nominating Committee which will meet on August 9th to consider suggestions received from voting members. The Committee will nominate a slate of 20 Life and Endowment members to be voted on at the Members' Meeting to serve as Directors for the three year term ending in 1945. The names of these nominees will be published in THE AMERICAN RIFLEMAN for September. Additional nominations may, of course, be made from the floor of the Meeting.

A TRAINING NECESSITY

Editor, American Rifleman:

As coach of the Altadena Rifle and Revolver Club I can say that we are active in training new shooters. I, personally, have started on basic training and have coached 76 persons during the last three months. We have received excellent publicity from the Pasadena Star-News on our project.

The Winter Sighting Device is the finest training device I have ever seen and I certainly hope that others will build them for their clubs. It is no trick to build one. I am not a mechanic and I built ours out of odds and ends and, while it is not exactly the same as the Winter model, at least one mechanical engineer has pronounced it as positive and workable as the one made to the specifications shown in THE AMERICAN RIFLEMAN (Jan. and Feb., 1942).

Every club in the country should have at least one Winter Device for training purposes even if they have to hire someone to build it for them.—*E. M. Lunsford, Altadena, Calif.*

GOVERNOR MILES' REMARKS

Editor, American Rifleman:

I want to call your attention to some remarks made by Governor Miles, printed in the Albuquerque (New Mexico) Journal, Saturday morning, June 27, which I feel are of particular interest to our organization.

At a time when registration, confiscation or any other method to keep arms from the citizenry seems to be the object of so many legislative and administrative agencies, a statement like this from the Governor of a State is particularly heartening. The following is quoted from the article:

"'After the war,' Governor Miles said, 'I'd like to see the military spirit kept alive in our land.

'I believe every citizen should be permitted to buy a gun without the red tape of obtaining a permit,' the Governor added. 'This would not have a bad effect, because crooks always can get guns anyway.' He said, too, that he favors training in shooting for the individual."

I believe Governor Miles should have some recognition from our organization for his stand.—*John F. Shaw, Aubuquerque, N. M.*

VAN ORDEN'S GIFT

Editor, American Rifleman:

You may have been told that the rifle and pistol shooters on the line at Quantico voluntarily chipped in to a collection to buy an appropriate gift for Major Van Orden who left there for other duties. Naturally, any attempt to make the purchase over the Fourth of July holiday was out of the question and some of the shooters who were there and who contributed may wish to know that the gift was selected after consultation with Mrs. Van Orden and that George has been shipped a 17 Jewel—12 Hour Register—Luminous Dial—Chronograph in a 14 Karat solid gold case bearing the inscription: "To Major George O. Van Orden, U. S. M. C., From Appreciative Shooting Friends, Quantico, July 4, 1942."—*Raymond K. Stritzinger, New York City.*

THE WAR, THE N.R.A., AND YOU

In the rapid expansion of our Armed Services it becomes more evident that experienced shooters are in a position to be of service.

For years Americans have prided themselves in the belief that every man was an embryonic Daniel Boone, ready to serve his country as a fully qualified marksman at the drop of the hat.

Now, along with other disillusionments, the bitter truth has dawned that only a few of the millions being called to active duty have even a rudimentary knowledge of firearms. One of the greatest and gravest tasks in the Services today is to impart to recruits sound basic training in use of small arms.

In modern warfare there are no longer either areas or troops which can be designated as "non-combatant." Quartermasters, engineers, signalmen, motor transport men—all are to be armed with rifles, carbines or handguns. Air Force ground crews must be prepared to defend their own installations. Unfortunately, neither the Red Cross on the arm of the hospital Corpsman nor the sex of the Army Nurse is any assurance of protection against the savagery and lust of the Jap.

Obviously this means that tremendous numbers of men, far beyond formerly accepted proportions, must have competent instruction in the safe and effective use of firearms. The plain truth is that *every* branch of the Service is in need of an almost unlimited number of small arms instructors.

The NRA has already been of direct assistance to several branches of the Services in suggesting qualified men for appointment as Commissioned Officers to conduct basic training programs. Reports have already been received commending the fine job being done by these men.

Unfortunately, the present procurement objectives for Officer personnel do not permit the commissioning of additional instructors. If and when this situation changes the Association will do its best to help fill further requests for assistance in finding men qualified for the task.

Meanwhile, to those of our members who have made application for appointment to commissioned grades in any of the Armed Services or in the Civilian Specialist Corps we suggest that complete supplementary information outlining your shooting ability be filed with the same office as the original application. This information should include data regarding certificates secured through the Small Arms Firing Schools at Camp Perry, instruction work done in local clubs, the period of membership in the N. R. A. and National Classification in N. R. A. Registered Matches. Any experience with machine guns or sub-machine guns should be especially noted. All of these points are important.

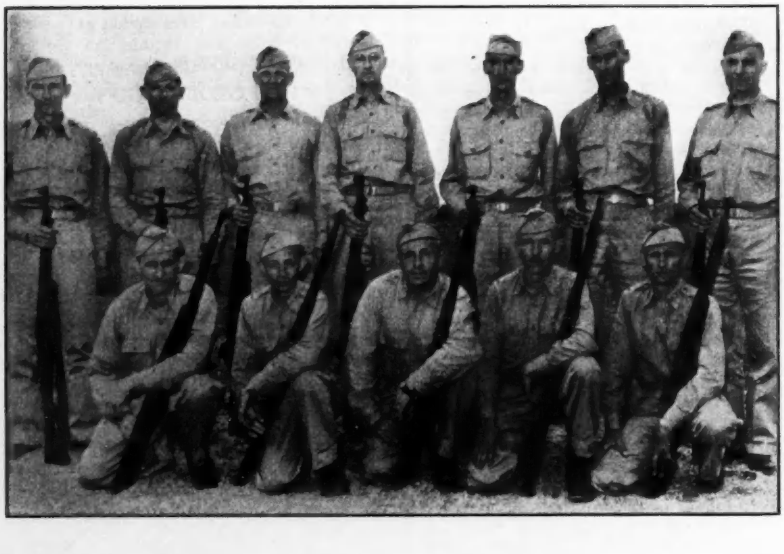
If they have not already done so men now in the Service should obtain permission to report to their Commanding Officers whatever special qualifications they may have as small arms instructors. There are apparently few organizations, particularly among the new units, where experienced shooters are not welcomed with open arms. To men who are called up in the near future it is suggested that this same information be given to their Company Commander at the Training Center.

Many N. R. A. members now in the Services have reported that their knowledge of shooting has directly contributed to their rapid advancement to non-commissioned officers grades. It is no longer true that the rifleman is a "fifth wheel" in the Signal Corps, Quartermaster, Ordnance or similar specialist branches. Do not expect to find interest in "snipers" of the World War I type, but there is interest a-plenty in men who can help to teach the fundamentals of aiming, holding and squeezing.

There are plenty of jobs to be done even by those who, because of age, physical disabilities or the necessity of providing for dependents, must stay out of active service. Most plant guard organizations are entirely untrained in the safe or effective use of their

(*Continued on next page*)

N. R. A. members teaching the Signal Corps to shoot at one Training Center. From left to right: Standing, Lt. W. A. Sayrs; Lt. O. E. Crockett; Lt. H. O. Smith; Lt. J. F. Holmes; Lt. E. V. Chandler; Lt. C. T. Frank; Lt. G. F. Johnson; Kneeling, Lt. R. B. Godwin; Lt. W. H. Grisley; Capt. G. A. Patterson; Lt. C. C. Anderson; Lt. V. F. Hamer.



TIMED FIRE
With Bill Shadel

Silver Shortage: We've just been told that silver qualification medals are out; that WPB can grant no priorities on this metal, so those shiny badges of marksmanship ability are no longer available to adorn your chest. That's probably very unimportant in these times, we'll admit, but this little sample of politics in war is very important as it affects many direct war effort lines. Silver, in a land of plenty, becomes a rationed metal. And why? Well, there's such a thing as a powerful "silver bloc" in Congress, as everyone knows. There's also such a thing as a coinage price for silver which is about double that of the commercial price. This silver bloc holds out for this favored coinage price set up by their own influence, automatically limiting the use of the large silver supply for the country's needs. Pitifully tragic? Well, it would be if you were depending on a precision instrument to stop a Jap, as some of our boys are.

The Trusty Krag: A .30-'06 in a .30-40 Krag! It doesn't work? Well, one Washington official, anxious to call in civilian guns for arming of state guards, was told a list of NRA members purchasing Krags from DCM over the years was available. Supposing these members were requested to turn these in, what would the guard do for ammunition? Oh, that's no problem, he suggested, there's enough .30 caliber ammunition for training. Then, followed the rude awakening when he was told we changed the military cartridge in '06.

Snipers and Tanks: Dust clouds from tanks and motorized divisions, seem to have covered up all thought or at least mention of the Sniper in this war. Even our friends in the service have confessed a doubt over his value, except as the camouflaged, tree-sitting, jungle wolf like the Japs on Bataan or Malaya. At least, nothing like the long range bullgunner of the last war. Now, however, there is considerable interest in the development of a new dead-eye dick, a super hunter-stalker-ranger, more mobile in equipment and assignment. We hope to have a story on this by next month or at least the following.

Even with the correct accent on training of men for immediate service we shouldn't overlook the importance of our junior work. H. D. Erk from out in Columbus, Ohio, explains it in an article for *Parents Magazine*, August issue out July 25 to 29. Read it and pass it on to where it'll do some good.

Ammo. Hopes: At this writing, chances for .30-'06 ammo. and even some .38's for our members look very favorable in the near future. Through NRA's contacts with Ordnance, WPB, DSC (Defense Supplies Corp.) approval has been secured of Munitions Assignment Board to make available to us, a reasonable quantity of .30-'06, a considerable quantity of .22 long rifle and, possibly, some .38's. Those .22 rifles and pistols for civilian training are still being held up until the requirements of the armed services are determined. Seems that no one thought of an inventory on these .22's after the freeze order on guns. We are assured these will be released as soon as essential requirements are taken care of.

(*Continued from last page*)

guns—and the War Department has ordered the plants to improve this situation. Several State Guard organizations which originally disregarded the trained civilian marksmen of the community are now gratefully accepting small arms instruction on civilian club ranges.

Exactly the same situation is true with many other organized protective groups, auxiliary police, etc. Hundreds of members can now utilize their shooting ability and personal equipment in the Minute Men organizations which are being organized by the Governors of many States.

Most important of all jobs now open to the stay-at-home shooter is to provide basic small arms instruction for the men who are being called to the Colors in constantly larger numbers. Their small arms instruction in the Army is not going to be adequate. You can help save American lives, help men maintain their morale, help bring Victory more quickly by using your time, your experience and your equipment to give these men a solid foundation of shooting knowledge. In too many cases they will only acquire that knowledge the *hard* way, under enemy fire, unless *you* lend a hand before they report to their induction centers.

Right now the Navy needs and will give appropriate commissions to thoroughly qualified *graduate* engineers—civil, electrical, Diesel, mechanical. Age limit, 50 years. If interested write to the National Rifle Association for a *preliminary* application blank.

The Navy also needs immediately men, 19 to 38 years of age, thoroughly familiar with all types of small arms, including machine guns, for active service as Gunnery Officers. Only men with college educations can be commissioned, but a high school education is all that is needed for a Warrant Officership. Age limit for this is 45 years.

First Lieutenancies will soon be available in the Army Corps of Military Police to men *with previous military experience*, 45 to 55, for domestic and overseas duty. They must be of average height and weight; minor physical disabilities will be waived. Send us complete information about yourself, if interested.

NEW BOOKS:

"SKILLED DEFENSE"

By Dewey Mitchell

This is by no means a new book, but we feel it should again be brought to the attention of our readers because of its excellent portrayal of a subject of importance. This book is especially recommended for the auxiliary police springing up over the land who will have little opportunity to study personal defense within the limits of their brief training. Because of the fine illustrations (it is in fact almost exclusively pictorial instruction) individual study and mastery of the combat technique is possible.

The author goes about the study in a logical manner, based on three factors of the art; (1) an intimate knowledge of the mechanics of the human frame, (2) the application of leverage and balance to that frame and (3) knowing how to take advantage of the other man's strength to overcome him.

The writer points out that "skilled defense gives you a new weapon, just as useful, and certainly as necessary to your safety as your revolver." What's more, he explains this defense in such concise terms and with so many photographs of each step that it becomes available to anyone willing to study and practice.

The book is beautifully bound in leather.—W. F. S.

"Skilled Defense" by Dewey Mitchell. Dewey Mitchell System of Skilled Defense, Inc., Cleveland, Ohio. 175 pages; illustrated, $4.00. Obtainable through N. R. A. Book Department.

SPOTTING SCOPES

Requirements of our services for optical instruments of many types has resulted in practical elimination of their manufacture. But increased interest in small arms firing schools has created a demand for spotting scopes suitable for coaches and trainees. The NRA has secured approval by WPB of priorities making it possible for the Mossberg Co., to complete manufacture of a small number of scopes which had been partially finished. These are of the single draw tube type, 20-power, 38mm., acromatic objective lens, field of view approximately 7½ feet at 100 yards. Price is $23.50 including present taxes. A smaller quantity of metal stands to accommodate *any* American scope is available at $7.65 including taxes. Orders must be accompanied by check or money order payable to NRA and order *must* be submitted on special requisition form sent each club secretary with the *Club Bulletin*.

Sir Charles Ross

Sir Charles Ross, inventor of the straight-pull Ross bolt-action rifle, who until very recently lived within a city block's distance from N. R. A. Headquarters, died on June 29 after a short illness in St. Petersburg, Florida. During the last few years he lived at Pass a Grille, Florida. Surviving is his second wife, Lady Dorothy Ross. Sir Charles, a man of powerful physique, was 70 years old.

His well-known rifle, made by the Ross Rifle Company of Quebec, in target, sporting and military type was used by the Canadian Army in World War I in .303 British caliber, and known as the Model 1905 Ross military rifle. This arm was later sold to N. R. A. members as an obsolete military rifle by the Director of Civilian Marksmanship. The Model 1910 Ross sporting rifle in .280 Ross caliber was highly acclaimed by hunters on account of its effective long-range game cartridge. The merits and safety features of the Ross rifle action, however, are still in dispute. The Ross match rifles with special Ross ammunition, involving superbly accurate long-range bullets, repeatedly won the 1200-yard matches at Bisley, England, against all competition. Ross' success in the realm of intrinsic rifle accuracy are accounted for by the little known fact that he was a pioneer in the scientific development of small arms ammunition and in the application of sound principles of design in the study of underlying characteristics of accuracy.

Sir Charles, educated at Eaton and Cambridge and later mentioned in Who's Who, had pioneered the development and installation of a successful hydro-electric plant before he became identified with ballistics, ammunition and his famous Ross rifle.—*F. C. N.*

Joseph Jessup

On June 15, 1942, Joseph Jessup of Ridgewood, N. J., was found dead in his car from heart failure. He had attended and led a patriotic meeting at the Elks Club and was on his way home. He had been liaison officer between the village police and various defense groups, and had worked too hard in his efforts to help in the coordination of work intended to make things smoother for our soldiers, sailors and Marines. Both in the present and in the past war he had helped instruct young soldiers in armories and on ranges, particularly in rifle practice. He was an expert with both rifles and revolvers.

Mr. Jessup was for many years a department head in the Newark offices of the New Jersey Bell Telephone Company, but retired several years ago. A son and three sisters survive him. He was President of the Ridgewood Rifle Club at the time of his death. His age was about 65 years.—*Perry D. Frazer.*

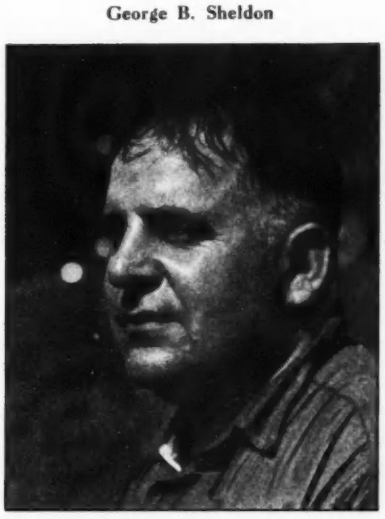
George B. Sheldon

On Tuesday, July 7, George B. Sheldon of 6 Harrison Street, Poughkeepsie, N. Y., was stricken suddenly with a heart attack while at work at the International Business Machines Poughkeepsie Plant where he was employed as federal inspector. As well known as any figure in the small bore ranks, his death will be keenly felt by many.

He was born on December 3, 1891, in Poughkeepsie and leaves a wife and a daughter. He ably held the office of President of the Poughkeepsie Rifle Club and his membership had extended to twenty-five years at the time of his death. He was also a Director of the club, Life Member of the NRA, member of the Dutchess County Sportsman's Association, the Dutchess County Pistol Association, and Treasurer of the Mid-Hudson Rifle League. He served also as a Lieutenant in the Poughkeepsie Auxiliary Police Force.

George, or "Pop," as he was known on many firing lines and ranges, will be remem-

George B. Sheldon



bered as a cheerful, sincere, and enthusiastic expert rifleman. He was an avid hunter, a lover of dogs, and a skilled gunsmith, completely at home in his workshop which was the source of many proudly-owned championship target rifle barrels. His collection of firearms was one of the largest and most complete in this section of the country.

"Pop's" collection of small bore trophies and medals equalled and surpassed almost all those in the country. His victories ran from club shoots to the National Matches at Camp Perry where he was a member of the 1925 U. S. International Team which won over England that year. He participated in the Eastern Small Bore Championships at Sea Girt, N. J., and Camp Ritchie, Md. His accomplishments extend to being chosen as a member of the American Team which shot at Bisley, England, in 1931. He placed third on the American Team with a score of 393 when the team lost by the narrow margin of 3977 to 3975. His interest was evident to the last and he had just returned from the Eastern Small Bore Championship Matches at Quantico, Virginia.

George Sheldon lent an addition to the small bore sport which made shooting with him something more than an enjoyable pastime. His keen competitive ability was always something to reckon with, but his interest extended to an ever-present readiness to help out a fellow shooter and especially anyone in the tyro class. His thousands of friends in the field are testimony of the extent of his enthusiastic influence.—*Guy W. Morehouse, Poughkeepsie, New York.*

Lt.-Col. W. W. Buckley

In the death of Lieutenant-Colonel William W. Buckley, the U. S.. Marine Corps has lost one of the men who in an official capacity had done much to establish rifle shooting as a tradition among the Leathernecks. Colonel Buckley served as Director of Rifle Practice in 1923, and was for years a familiar figure at the National Rifle and Pistol Matches, both at Camp Perry, and earlier at Sea Girt, New Jersey. While not himself a shooter, he was active in the furtherance of Marine Corps ideals of marksmanship in every post he held in the Corps, and was a life member of the National Rifle Association.

Born in Kansas, Colonel Buckley was appointed a Second Lieutenant in 1905, and advanced through the grades until he was made a Lieutenant-Colonel in 1931. He was retired in that grade in 1935, after completing 30 years service. He had served in Cuba, the Canal Zone, Mexico, Santo Domingo, Nicaragua, Haiti, Hawaii, and China, and on many ships of the fleet.

Colonel Buckley died on July 12, at the Naval Hospital in Bethesda, Maryland. He is survived by his widow, Mrs. Betty R. Buckley.

Edward Stabler Fox

Edward Stabler Fox, Life Member of the N. R. A. and an ardent, life-long rifle enthusiast, died of a heart attack June 25 while at work. He lived in Limestone, N. Y. Mr. Fox was born in Pennsylvania on November 29, 1890, and was named for Edward Stabler, Quaker gunsmith and inventor of the Stabler magazine cut-off for the Spencer repeating carbine.—*Hugh E. Niver, Limestone, N. Y.*

TOURNAMENT REVIEWS

Vandergrift, Pa.: Charley Whipple of Somerset, Pa., and M. L. Eastep of Turtle Creek battled a tricky wind and each other for two days at this fifth annual small bore tournament July 4 and 5. No others in the field of 114 were in contention for aggregate honors after W. C. Donaldson of Coraopolis won the first match with 399 in the iron sight Dewar. The consistency, not brilliance, of the two was the deciding factor as Eastep, with three seconds and a third in four matches, led Whipple, who hadn't won a medal, by three points at the end of the first day. Charley, however, took Sunday's first event and all but routed his rival with seconds in the next two. But Eastep steadied, won the final, 100 yard any, with a possible and 23 X's to come out on top in the Grand Aggregate by four points with 3191. Clarence Bush and W. H. Bahrenberg led Experts and Sharpshooters, respectively. Stella Adamson copped a special Ladies Match at 100 yards, any sights, with 199-8X.

Des Moines, Ia.: Traditional Cooper "good weather" luck held out again this year at the Iowa State Small Bore Matches and despite previous continuous rains the skies cleared just before the Saturday matches. The "money" matches on Saturday afternoon went to host George Cooper, Ted Holm, also of Des Moines, and M. F. Gunderson of Oelwein. Holm continued on Sunday with a 25x possible in the Any Sight Dewar and the only possible in the 100 yard Any Sight with 22 X's. Cooper out X-ed four others, all with 397's to win the Iron Sight Dewar. Paul Ferguson, Waterloo, climaxed his consistently good shooting in preceding events to win the Iron Sight 50 yard match thus giving him, in the Aggregate Championship, a two point margin over last year's winner. Chet Jones of Albert Lea, Minn. Ferguson totalled 1593-103x, two up on Jones; three up on Holm.

Baudette, Minn.: Arnvid Anderson of Warroad, Minn., walked off with Grand Aggregate honors as usual at the June 28 pistol shoot on the beautiful Lake of the Woods range. Following close behind was out-of-stater J. W. Aitkin of Overly, North Dakota with class honors going to A. S. Christopher of Roseau among the Sharpshooters and Charles Jones of Valley City, North Dakota, among the Marksmen. Anderson, with the assistance of R. R. Bush of the local club, also netted the two-man team match as the pair totalled 579. John Rankila and Mrs. Tyl Johnson of the Virginia Rifle Club were second with 563. Four-man team honors also went to the Virginia Club as it edged Lake of the Woods by three points with 1077 points.

Wayne, Mich.: Braving the effects of an all night downpour 45 competitors turned out for the June 14 match on the 30 target rifle range of the Detroit Rifleman affiliate. Class "A" honors were split five ways in the five matches, the winners being Owen Cordua, of Detroit, with 200-13X in the 50 yard Iron; James Dalzell, of Wyandotte, with 394-20X fired in a windstorm in the Dewar Iron; F. P. Schimmel, of Detroit, with 198-21X in the 100 yard Any; R. F. Jolin, of Port Huron, with 398-21X in the Dewar Any; and Al Johnston, of Detroit, with 200-16X in the 50 yard Any. Max Lee, of Detroit, with three wins in the five matches, stood out among Class "B" entries.

Mt. Gilead, Ohio: When the 169 men and women who attended the Class "B" Ohio Rifle and Pistol Association Match, July 4 and 5, hear that Champion Eugene Beecher of Cleveland changed two years ago from a righthander to a southpaw, there may be many trying the stunt. Dethroning 1941 Champ Bill Patriquin, who finished fourth, Beecher tallied 1591-97X over the four match program to edge Ed Dobscha of Willoughby and Allan Johnston of Detroit with 1588 and 1586, respectively. Beecher also copped the metallic sight aggregate but yielded the Any sight crown to Perry Grossklaus of Canton. Lino Della Bianco, Akron U. star competing in his last junior match, took the junior championship by a point from Forrest Teal. In the annual Ohio-Michigan team match the Buckeye squad tallied 8910 to win the ten-man event by 25 points. Canton-McKinley Rifle club won the State Team Championship repeating their victory in the gallery championship. They scored by two points over the defending Forest City Rifle Club team. Among the far-travelling competitors was R. A. Newcomb, Tulsa, 1941 Champ in both Iowa and Oklahoma and winner of this year's Magic Empire. He won the 50-yard metallic match and placed in several others.

Long Island, N. Y.: Without winning a single event Charlie Eckles, of New Hyde Park, outsteadied 69 competitors to win the sixth annual Spring Tournament, June 21, at Woodbury. Firing consistently in the day's varying weather conditions Eckles, however, managed to cop every Class "A" medal and dropped only six points of a possible 1200. Individual match winners were Ben Mecklenburg, of Mount Vernon, in the opening Any Sight Dewar; Doc Tekulsky, of New York, in the Iron Sight Dewar; Bunny Renois, of Woodside, in the 50 Meter and Sam Tekulsky in the 100 yard International.

Flint, Mich.: A new record attendance of 128 competitors braved threatening weather for the June 21 Class "C" tourney. In the short range metallic a three-way 200-14X tie occurred between Expert Frank Trezise and Masters C. W. Ferguson and Allan Johnston. Trezise won on a toss. Experts Rollin Briggs and Leonard Skog took the Masters into camp by winning the Short Range Any and Long Range Metallic with 200-15X and 200-6X, respectively. The Masters finally gained control when Ferguson's 400-22X was good in the Dewar Metallic and his 400-32X topped the Dewar Any to win the day with two wins and three seconds.

Sparrows Point, Md.: National Women's Champion Mildred McCarthy, of Allenhurst, N. J., eked out a sensational aggregate victory in the third annual Police Department Pistol Tournament, Sunday, June 21. The Camp Perry titlist outranked Washington's Dr. William Cook with higher rapid fire totals after both tallied 554 x 600 to lead the 96 competitors. The two National Match Course events which made up the Aggregate were split by the two stars after the opening Slow Fire honors had gone to Everett Gue with

179. Class prizes in the Aggregate went to Robert Mansell, Master; Chester Coons, Expert; Willy Goebel, Sharpshooter; and William Stanton, Marksman. Team honors were monopolized by the Free State club, which took both the .22 and center-fire events.

St. Louis, Mo.: "Half-pints" Dick and Ruth Dorian made a profitable quick trip from Kansas City to monopolize all but one of the first place awards at the June 14 State Championship Matches held for the first time on the fine Glendale range. Dick dropped only three points in the four-match Aggregate to win by six points over Ruthie who, in turn, was four points up on John Whitney. Dick also won the 50-yard Metallic event and the Dewar Any with possibles of 29 and 27 X's, respectively, and Ruth outranked him by four X's after both turned in possibles in the 100-yard Any. To top that, the Dorians teamed to win the doubles attraction. Fred Spencer of Alton won the only other event, Dewar Metallic, with 399.

Eugene, Ore.: Ernest Barrein of Milwaukie, Ore., one of the state's top riflemen, won his second straight Lane County Tournament title June 28. Barrein won three of the four matches and placed second in the Master Division in the fourth. The only other match victory was scored by Herbert Baker of Portland who took the 100 yard Any. Barrein's total in the Grand Aggregate was 1581. Class winners were Clifford Fosberg, Master; Ernest Everson, Expert; Dimitri Bolton, Sharpshooter; and Ross Cooper, Marksman.

Sioux Falls, S. D.: A combination of heavy mirage and a fishtail wind completely befuddled host-towner Joe Paa at the June 14 shoot, wiped out his early lead and gave the day's top honors to a pair of out-of-towners. After Paa had built up his margin in the iron sight shooting J. G. Eucks of Norfolk, Nebr., and N. H. Steele of Sparta, Wis., outshot him the rest to tally 1174 and 1168 in the Aggregates, respectively. H. E. Burchfield, a teammate of Paa, sneaked in with 1162 points.

Seattle, Wash.: Shooting in a steady drizzle J. E. Steele of the Seattle Police Department led the Buddy League Pistol field June 14 with two first place awards, a second and two fourths to total 925 in the Aggregate. This beat Glen Gibbs, in second, by four points. In the Expert Class Gordon McDougall, buddy protege of Steele, led with 904. The Buddy team match was won by P. M. Chapman, veteran Treasury ace, and H. E. Walmsley of the Seattle Police. Sharpshooter Jack Haynes of the U. S. Postal Department and Marksman Gene Spear, first year man of the Seattle Police, topped their respective classes.

Rossville, Md.: Tricky winds and a terrific rain storm took a heavy toll of points June 14 from the 106 competitors at this annual Spring Tournament. In a combination four-man team and individual Dewar Course event the York Riflemen and Dave Carlson came out on top with 1587 and a 400-22x, respectively. Again in the second match—40 shots at 50 yards—Dave's 400-26x proved too much. R. O. Willman's 395-26x, however, gave him the third event and the Aggregate with 1190, three points ahead of Carlson. Ladies' honors were split between Ruth Morgan of Greenbelt, Md., and Eleanor Colklesser. This was the first registered Class "C" tournament ever held by a club in the Baltimore area.

COMING EVENTS

The registered tournaments are indicated as follows: B—State Championships or large District Matches; C—Local. *Unregistered* matches are not coded. Classification of competitors for prize awards indicated by asterisk—C*, etc.

AUGUST

RIFLE

2 Massachusetts (C*), Registered Rifle, Shelburne Falls. Emory C. Broadhurst.
2 Minnesota (C*), State Rifle, Albert Lea. H. R. Smith, 2136 Palace Ave., St. Paul.
2 New Mex. (B*), State Rifle, Clovis. L. D. Wilson, 119 E. Buena Vista Ave., Santa Fe.
2 Oregon (C*), Finley Memorial, Portland. **(Cancelled)**
2 Arizona (C), American Legion Trophy, Bisbee. Mrs. R. L. Stewart, Box 1561.
2 Illinois (C*), Illiana Rifle, Danville. W. I. Bowman, 22 N. Hazel St.
9 New York (C*), Central New York, Oneida. Donald D. Devitt, State Police.
9 Wisconsin (B*), State Rifle, Racine. Oliver Moody, 5527 N. 35th Street, Milwaukee.
9 Pennsylvania (C*), Summer Rifle, Allentown. A. M. Newhard, 111 E. Susquehanna St.
9 Washington (C*), N. W., Bisley, Seattle. F. A. Weston, 1324 New Washington Hotel.
9 Michigan (C*), Saginaw Valley, Midland. Howard Towell, 503 W. Jane St., Bay City.
15 North Carolina (C*), Summer Rifle, Greensboro. J. R. Holshouser, City Hall.
15–16 Oregon (B*), State, Eugene. E. L. Plogg, 1911 S. E. Ankeny St., Portland.
15-16 Ohio (C*), Fort Harmar Rifle, Marietta. H. W. Meiser, 621 7th St.
16 New York (C*), Indian Summer, Elmira. Neil Wheeler, Hendy Ave.
16 Illinois (C*), Camp Grant, Rockford. Dr. S. A. Oren, 907 Talcott Bldg.
22–23 Pennsylvania (B*), Pa. State, Altoona. John Kaylor, 709 4th Ave., Juniata.
23 Wisconsin, Small Bore, Janesville. James D. Wenstrom, 217 N. Walnut St.
30 California (C*), No. California, Richmond. C. DeWitt, 3701 Lincoln Ave., Oakland.

PISTOL

2 Florida (C*), East Coast, Fort Lauderdale. A. T. Kelley, Jr., Box 43, Coral Gables.
2 Maine (B*), State, Auburn. Samuel Clark, Jr., % G. S. Flood Co., Waterville.
2 Ohio (B*), Championship, Mt. Gilead. C. I. Greer, P. O. Box 123, Barberton.
2 Wisconsin, Milwaukee Club, Racine. James D. Wenstrom, 217 N. Walnut St., Janesville.
2 Wisconsin (C*), Mid-Summer, Milwaukee. Leonard P. Yelg, 1028 South 36th St.
9 New Jersey (C*), Mid-Summer, Trenton. William Lewis, Box 1420.
15–16 Indiana (B*), State Pistol, Frankfort. **(Cancelled.)**
15–16 Washington (C*), N. W. Annual, Seattle. G. B. Gilmore, Police Headquarters.
16 Indiana (C), Pistol Tournament, Evansville. W. S. Horne, Police Headquarters.
16 Illinois (C*), Sheridan Club, Deerfield. B. C. Meyer, 919 Forest Ave.
16 California (C*), So. Calif. League, Glendale. J. E. Cornell, 662 Arden Ave.
16 Minnesota (C*), Minnesota Arrowhead, Virginia. Ernest Johnson, 307 4th St., S.

SEPTEMBER

RIFLE

5–6 Pennsylvania (C*), Central Pa., Harrisburg. Chas. W. Senseman, 425 South 13th St.
5–6 Oklahoma (B*), Okla. State, Tulsa. C. N. Wynkoop, 310 Thompson Bldg.
6 Utah (C*), Small Arms Club, Salt Lake City. Obediah Haycock, U. of Utah.
6–7 Louisiana (C*), Cresent City, New Orleans. F. J. Villars, Jr., 607 Metairie Rd.
13 Illinois (C*), Sheridan Club, Deerfield. B. C. Meyer, 919 Forest Ave.
13 Minnesota (C*), N. Iowa-S. Minnesota, Albert Lea. **(Cancelled)**
13 Ohio (C*), Sixth Annual, Mt. Healthy. H. W. Faith, 1400 Harrison Ave., Cincinnati.
20 Illinois (C*), State Rifle, Aurora. Dr. S. A. Oren, 907 Talcott Bldg., Rockford.
20 New York (C*), Long Island Ass'n, Woodbury. H. B. Guckel, 1511 150th, Whitestone.
20 Pennsylvania (C*), Fall Rifle, Allentown. A. M. Newhard, 111 E. Susquehanna St.
27 Michigan (C*), Outdoor Rifle, Flint. A. J. Marxhausen, 2521 Thomas St.
27 New York (C*), Fall Rifle, Oneida. Donald D. Devitt, State Police.
27 Wisconsin (C*), County Line, Racine. O. J. Moody, 5527 N. 35th St., Milwaukee.
27 South Dakota (C*), Fall Rifle, Sioux Falls. H. E. Burchfield, 630 E. Oak.

PISTOL

5 Louisiana, Crescent City, New Orleans. F. J. Villars, Jr., 607 Metairie Road.
6 New Mexico (C), Pistol Tournament, Santa Fe. L. D. Wilson, Santa Fe.
6–7 West Virginia (C*), Mountain, Fairmont. Dr. F. F. Sowers, 900 Fairmont Ave.
7 Georgia (C*), North Georgia, Gainesville. William E. Fennell, Gainesville.
12–13 Oklahoma (B*), State Pistol, Drumright. R. A. McGoon, Box 1063, Enid.
13 Michigan (C*), Registered Pistol, Flint. A. J. Marxhausen, 2521 Thomas St.
19–20 Texas (C*), Ada Zilker Robinson, Austin. T. S. Pennington, Police Dept.
20 Illinois (B*), Sheridan Club, Deerfield. B. C. Meyer, 919 Forest Ave.
20 Minnesota (B*), State, Fort Snelling. H. R. Smith, 2136 Palace Ave., St. Paul.
27 Iowa (B*), Northern Iowa, Mason City. Dr. R. E. Smiley, Park Hospital.
27 Virginia (B*), Virginia State, Richmond. Bernard Gray, 2216 Stuart Ave.

STOLEN GUNS

Colt Officer's Model, caliber .38, 6 inch heavy barrel, perfect condition. Serial 642673. Stolen June 11 from office of W. W. Fowler, 511 Masonic Temple, Greenville, S. C.

.22 Remington single shot rifle, Serial 351238; .32 Belgium made, single shot rifle; 12 gauge Harrington and Richardson shotgun, Serial 40910; .22 Harrington and Richardson 9 shot target revolver, Serial 145256; .32 Remington 5 shot nickel-plated revolver, Serial 1451; .32 Spanish made, nickel-plated automatic. All stolen June 17 from home of Merle Rake, R. R. #2, Hiawatha, Kansas.

Winchester Enfield, Serial 430902, with sporter stock. Stolen July 3 from car of Philip Fricano, 1048 N. Cicero Ave., Chicago, Ill. Notify Mr. Fricano or Chicago Police.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Home-cast Bullets · Lead Alloys · Sizing Diameter · Bullet Designs · Suitable Powders and Velocities · Seating Depths Special Loads · Zinc Bullets · Shot Cartridges · Special-Bored Rifles and Revolvers · Handload Cautions · Trade Dope · Letters.

.30-Caliber Lead Loads. In preceding issues of this department we have discussed factory loads and handloads involving factory-made jacketed bullets for .30-caliber rifles. Now we are concerned with home-made bullets of lead alloy. Good results as well as economy can be had by exercising care in obtaining suitable lead-alloy bullets and in loading them. They should be slightly larger than groove diameter and case necks should be smooth inside and of practically the same diameter to avoid undue squeezing and deformation of these easily-mutilated alloy bullets. Good lubrication and the proper combination of powder and primer will do the rest.

Our first need is bullet metal consisting of lead tempered with tin or antimony or with both. Many successful bullets used for many purposes in many calibers, at velocities between 700 f.-s. and 1400 f.-s., have an alloy of 2% antimony and lead. Such a bullet-alloy is soft, but it has a higher melting point than one containing more of the tempering metal, tin or antimony. The more of both or either is added, the harder and tougher becomes the bullet metal and the lower its melting point providing we do not go above 25% of the tempering metal, because then the melting point will begin to rise with the hardening of the metal.

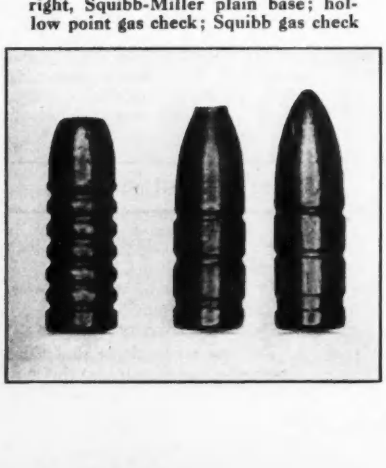
The relatively soft bullet is best for low-velocity loads in slow-twist barrels. For the usual 10-inch twist of our .30-caliber barrels we need a harder and tougher bullet to keep it from stripping or sliding across the lands instead of following the spiral as it must for the sake of accuracy. At velocities higher than plain-base bullets will withstand we keep the base from fusing or melting by fitting a copper gas-check cup over the heeled base of lead-alloy bullets designed for this purpose. Then we can drive them at velocities above 1700 f.-s. A temper or alloy which has proven almost universally successful is 2% antimony, 2% tin and 96% lead. That is one part tempering metal to 24 parts lead. Another successful one is one part tin to 17 parts lead. Both these alloys work well in revolvers as well as in rifles of different calibers.

Although these are good alloys when a blind choice must be made, they are subject to improvement and probably should be altered to meet special conditions. The softest bullet would be one of pure lead. The hardest alloy which should be required is one part tin to 10 parts lead, although I have known of 1-to-6 alloy used with satisfaction in bullets for autoloading pistols. Some common variations for hard bullets are: 85% lead and 7½% each of antimony and tin or 80% lead and 10% each of the tempering metals. All the above alloys are based on weight. In the last named you would have 40 pounds of lead and 5 pounds each of tin and antimony in a 50-pound lot of bullet metal. This would amount to one part tempering metal or alloy to only four parts lead; a pretty hard bullet metal. Factory lead bullets are usually one part antimony to 50 parts lead.

Lead-alloy bullets can be purchased in most cases either from the mold maker or through him. Before this war changed industrial setups, Belding & Mull cast and sold bullets from their own molds, while those from Ideal molds and Modern-Bond molds were furnished most notably by H. Guy Loverin who is still at it in Lancaster, Mass. He has bullet designs of his own and has other standard bullet molds of his own careful selection which he features in all popular calibers for rifles and revolvers. We have never obtained a poor or unsuccessful bullet from Loverin's molds and sizing machines. While a certain design of bullet may be better than any other for some certain purpose, it is always necessary to get one which will fill well the groove diameter, and this requirement must be met first.

To be adequate, the cast diameter must be at least .002-inch larger than groove diameter of the barrel and it should be .003-inch larger so that .001 inch can be removed in sizing the bullet in the lubricating press. The normal .308-inch .30-caliber groove diameter would require a mold to cast a bullet of .311-inch diameter. Even fired as cast, it would be none too large. In several .30-'06 rifles and with both hard and soft gas-check bullets we have had the best accuracy with two distinct designs in .3125-inch and .313-inch diameter. A bullet must be cast .315 to .316 inch to meet this requirement. Some .30-'06 rifles have .309-inch and .310-inch groove diameters. These are common in the .30-40 Krag, M-1917 and 7.62-mm. Russian barrels. The .303 British is still larger, or .311-inch groove diameter, and bullets should be sized .312-inch minimum to .315-inch maximum which will mean a cast diameter of at least .313 inch and preferably .316 inch. Many 100-grain bullets for the .32-20 and .32 S. & W. Long are cast this big, but in heavier standard weights of lead-alloy .30-caliber bullets the diameter is too small for these over-size bores even when the bullets are used as cast, or lubricated without sizing. The Lee-Enfield bore is still larger in diameter and is discussed later.

Thirty caliber cast bullets: left to right, Squibb-Miller plain base; hollow point gas check; Squibb gas check



On the other side of the picture, there is a limit to what may be removed from a big bullet, and this is usually no more than .003 inch and often less. The limiting factors are groove depth and closeness. When more than .002-inch is removed in sizing, the lubricant grooves are left too shallow and are squeezed together. This does not occur in big calibers as often as it does in small calibers. Grooves are wider in a .38 Special bullet than they are in a .30-caliber or .22 caliber. In the .22 caliber and, when grooves are relatively shallow and closely spaced in a .30-caliber bullet also, the maximum permissible sizing is only .001 inch. These facts should all be kept in mind while selecting a bullet design and before the mold is purchased. If possible, a sample lot of bullets should be purchased before selecting a mold; first a sample to be examined as cast and then a few sized and lubricated to be tried by loading and firing them.

Now, specific designs. A good one to consider for the .30-'06 and .30-40 Krag is Loverin's 154-grain gas-check in Modern-Bond No. 311910. He has found this accurate at 1000 yards in the .30-'06 with 28 grains of No. 3031. He also suggests trying 16 grains of 2400 and 20 grains of 4227. Another Bond bullet is the 165-grain gas check No. 311890 cast hollow point which Loverin found O. K. at 1000 yards with 25 grains of 4198. He also found 23 grains accurate at short range in two .30-'06 rifles and suggests trying these same loads behind the regular solid bullet, same number. Still another is No. 311820 which Loverin found accurate up to 1000 yards with a load of 27 grains No. 3031 in the .30-'06. He suggests trying 24 grains of 4198. Other suggested loads are 16 grains of 2400, or 27 grains of 3031 behind the 169-grain Squibb gas-check bullet from Ideal, B. & M. or Hensley molds. This well-known Squibb gas check is one of the most popular .30-caliber bullets. We have used some heavy loads with it and it gave good accuracy in the .30-'06 when sized .313 inch. Velocities approaching 2600 f.-s. are possible, but usually better results will be had at 1700 to 2200 f.-s. In the Krag, the loads run about 10 grains under the heavier .30-'06 loads.

Generally, gas-check bullets and heavy plain-base bullets should be seated deeply in the neck of the case for best results. With most of the heavy gas-check bullets this will be the natural outcome as the nose should just reach the throat and touch it but lightly, or just escape contact. The basic seating depth of the 169-grain bullet is .375-inch. With F. A. No. 70 primers in the .30-'06, 25 grains of HiVel No. 2 develops 1650 f.-s.; 35 grains, 2120 f.-s. and 45 grains, 2595 f.-s. In the .30-40 Krag: 18 grains, 1352 f.-s.; 28 grains, 1980 f.-s. and the maximum load of 38 grains, 2525 f.-s. In the .300 Savage the seating depth is .525 inch and the laboratory loads are: 16 grains, 1220 f.-s.; 24 grains, 1760 f.-s. and 31.8 grains, 2280 f.-s.

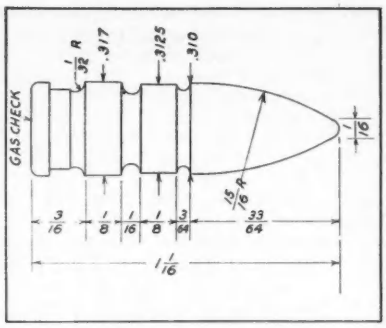
For another comparison, a typical 207-grain gas-check bullet in the .30-'06 has a seating depth of .464 inch and the Hercules loads of HiVel No. 2 are: 28 grains (1780 f.-s.), 36 grains (2100 f.-s.) and 45.6 grains (2480 f.-s.). The latter is the maximum load with F. A. No. 70 primers and would be too high with modern noncorrosive primers. In

the .30-40 Krag the seating depth with this same bullet is .611 inch and the relative loads are: 18 grains (1370 f.-s.), 27.0 grains (1880 f.-s.) and 33.8 grains (2260 f.-s.). The latter develops 42,000 pounds pressure and is the maximum load in the Krag. Other examples are: A 230-grain lead bullet in the .30-'06 seated ½-inch deep and 22 grains of HiVel No. 2 gives 1470 f.-s. A 195-grain lead bullet seated .336 inch deep in the .30-40 Krag case and 22 grains gives 1562 f.-s. A 196-grain lead bullet seated .593-inch deep in the .300 Savage case and 24 grains gives 1805 f.-s. The usual 1900 f.-s. velocity for a 200-grain gas-check bullet requires: in the .30-40 Krag, 25 grains HiVel No. 2, 22 grains Lightning, 34 grains I. M. R. No. 18 or 34.5 grains I. M. R. No. 17½; and in the .30-'06, 29 grains of HiVel No. 2, 25 grains of Lightning, 37 grains of No. 18 and 38 grains of No. 17½. Other propellants which are practical for gas-check loads are No. 1204, No. 4198 and No. 4064.

For velocities under 1700 f.-s. it is not necessary to use gas checks, and lighter plain-base bullets might be more suitable as well as more economical. However, the 169-grain gas check works well at midrange and lower velocities, and the loads mentioned can be applied to other lead-alloy bullets of 160- to 170-grain weight. At 1400 f.-s. these .30-caliber bullets equal the standard power of the .32-40 rifle. Usually old-style primers or the weaker types of noncorrosive primers (W. R. A. No. 115 and .210-inch pistol) give the best results. Such primers are required with quick-burning or the softer granulated pistol and shotgun powders, such as No. 5, Bulk Shotgun, No. 80 and 4759, and are desirable with short-range rifle powders. Powerful modern noncorrosive primers, such as R. A. No. 9½ K. B. and W. R. A. No. 120, will work well with HiVel No. 2, No. 18, 4198, 3031, 2400, 4227 and 1204 and may be used with Unique, No. 80, Lightning, Sharpshooter, and dense shotgun smokeless.

The loads which develop about 1400 f.-s. are: In the .30-'06, 15 to 17 grains 1204 or 4227, 15 to 16 grains No. 80, 15 grains 2400, 16.5 grains Bulk Shotgun, 11 grains Unique and 18 grains No. 4759. In the .30-40 Krag, 14 grains 2400, 10 grains Unique, 15 grains 1204 or 4227, 14.5 grains No. 80 and 14.8 grains No. 4759. In the .300 Savage, 14 grains 2400 and 15 grains of 1204 or 4227. In the .30-30 Winchester or .30 Remington, 13.5 grains of 1204 or 4227 and No. 80, 13.8 grains of Bulk Shotgun, 13 grains of No. 4759 and 12.5 grains 2400. With 150-grain plain-base or gas-check bullets the following loads can be used: In the .30-'06, 12 to 14 grains No. 4759, 12 grains 2400, 11 to 12 grains No. 80 or Bulk Shotgun, 8 to 10 grains of Unique and 15 grains 1204 or 4227. In the .30-40 Krag, 10 to 11 grains 2400, 9 grains Unique, 13 grains 4759 and 10 grains No. 80 or Bulk Shotgun. In the .300 Savage, 10 to 12 grains 2400, 9 grains Unique, 10 grains No. 80 or 13 grains 4759. In the .30-30, 8 grains Unique, 8 to 10 grains No. 80 and 10 grains 2400. The pistol powders work well in the lighter gallery loads with 150-grain or lighter lead bullets. Up to 9 grains No. 5 can be used in the .30-'06, 8 grains in the Krag and .300 Savage and 7 grains in the .30-30.

In seating lead bullets, care should be taken to avoid deformation, from squeezing the bullet or shaving its base, in tight case necks. With quick-burning powders the bullet may be fairly loose in the neck. When



Elliott's Over-size Bullet

resistance is needed to burn some other powder load a snug, but not a tight, fit may be used, or a loose fit and a mouth crimp into one of the bullet grooves. Case necks should, therefore, be about bullet diameter inside or only .001-inch smaller in extreme cases. The neck should be polished inside with fine steel wool, and a wax film might be profitably left inside. This is most conveniently done by cleaning with one of the wax-in-solvent solutions, such as Anti-Rust Oil. The shell mouths, of course, should be beveled by chamfering or, when a crimp is to be used, by belling them over a steel cone.

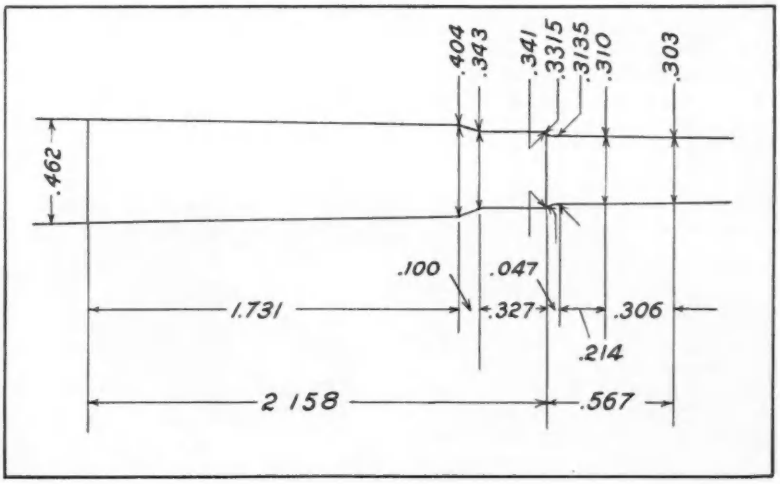
For special target bullets which have oversize base bands for bore seal, such as the bore-riding Squib Miller plain-base bullet, the .30-caliber neck-case must be reamed inside. For these Pope-type target bullets, from Ideal or B. & M. molds, a .3125-inch Straight Rose Reamer will do the job. The depth of reaming should be determined by the depth of base band as these bullets are shallowly and loosely seated over light charges of quick-burning powder. The long, forward section of the bullet projects and aligns its axis with the bore axis by riding on top of the lands. The velocity should be between 1050 and 1350 f.-s. m.v. Try No. 80, Unique, No. 5, Bulk Shotgun or No. 4759.

Another special bullet is the Hensley No. 38 gas-check, a cylindrical hollow-point lead-alloy bullet for .30-caliber rifles, known as the N. R. A. glance-proof bullet. When cast of hard brittle alloys this bullet breaks up readily upon impact to forestall ricochets at normal gas-check velocities, or 1700 to 1900 f.-s. When reformed, in an Ehlman swage, to its R-3 (round-nose) shape it is accurate at much higher velocities, or 2200 to 2600 f.-s. One of our accurate loads in the .30-'06 rifle was 44.0 grains of No. 4064 with F.A. No. 70 primers and an .046-inch Ipco graphited lubricating wad behind this 119-grain hollow-point bullet. When sized .3125 inch we had 100-yard groups of 1.21, 1.16 and 1.12 inches with 42, 44 and 46 grains of 4064, respectively. These loads shot into 5 inches at 200 yards, consistently, and into 3 inches in 5-shot strings. Swaged to the S-3 pointed shape its nose resembled that of the Squibb gas-check bullet, and the best load was 29 grains of No. 4759, similarly loaded otherwise. This gave 5-shot groups of 1.48 and 1.76 inches at 100 yards and it put 10 shots in 3.22 inches at 200 yards.

For the benefit of our Canadian friends, I might well mention that a special diameter of lead-alloy bullet is required by the Lee Enfield in .303 British caliber. These barrels are bored larger than those of the Ross rifle in the same caliber, and, according to W. B. Elliott of St. Catherines, Ontario, no accuracy can be expected with lead-alloy bullets smaller than .317 inch. Mr. Elliott has designed a bullet for the Lee Enfield which should also be suited to some of our over-size .30 Newton barrels. He got no accuracy at all with .313- and .314-inch lead bullets, because they were too small. When extremely large bullets are used, chambering problems are sometimes introduced by chamber necks insufficiently large to accommodate such bullets and the brass neck of the case. If the brass is thick it can be reamed out to the required diameter, or the bullet can be seated in the bore ahead of the case with a lead-filled dummy or some other special bullet-seating tool. W. B. Elliott says the standard neck chamber of his .303 British Lee-Enfield was .341 inch and the average brass thickness was .013 inch. This meant he had to ream out that much brass, or remove .001 inch on all sides within the neck in order to chamber his .317-inch bullet. The other alternative is to use soft .311-inch to .314-inch lead-alloy bullets with hollow bases which will readily expand to fill those deep grooves.

For suitable jacketed bullets, Mr. Elliott used the 115-grain .32-20 S.P. and the Remington make of 195-grain .303 Savage S.P. bullets which he obtained in .3105-inch

Lee-Enfield Chamber Dimensions by Elliott



diameter. He says the Lee-Enfield barrel has a .303-inch bore diameter, but its five .094-inch grooves are from .005-inch to .0065-inch deep, resulting in a groove diameter up to .316-inch and requiring .317-inch lead bullets for satisfactory accuracy. His 170-grain gas-check bullet is $1\frac{1}{16}$ inches long and has a seating depth of .312 inch. It has three $\frac{1}{8}$-inch bearing bands, including the base, and three $\frac{1}{16}$-inch lubricating grooves, made deep and rounded with fillets on a $\frac{1}{32}$-inch radius. The semi-pointed head has an ogival radius of $1\frac{7}{16}$ inch and a maximum width of .310 inch at the shoulder. The first band is .3125 inch in diameter, while that of the second band and of the gas-check base is a full .317.

So far we have failed to mention only one of the many types of .30-caliber loads, and that is the "whisper" load for cellar or attic practice. It involves a very light charge of quick-burning powder and a .30-caliber buckshot or round lead ball, weighing about 47 grains. The report is light and the velocity is not over 1000 f.-s., which is less than that of the .22 Long Rifle. Some shooters use lubricating wads or a tuft of absorbent cotton behind the ball which is seated in the neck. All the lubricant needed can be put on the surface of the ball with the fingers by revolving it on a stick or block of bullet grease. The cotton may also be omitted. Preferably, the ball should be considerably larger than the groove diameter, and it may be as much as .006-inch larger. It should be seated with the sprew or sprew-cut up, and the following type of charges must be used: In the .30-'06, 3.5 grains of Bullseye, 4.2 grains of No. 5, 8.0 grains of No. 80 or Bulk Shotgun. In the .30-40 Krag, .300 Savage, .303 British or 7.62-mm. Russian, 3.0 grains of Bullseye, 3.5 grains of No. 5, 7.0 grains of No. 80 or Bulk Shotgun. In the .30-30 or .30 Remington, 2.5 grains of No. 5, 2.0 grains of Bullseye, and 5.5 grains of No. 80 or Bulk Shotgun.

In summary, the 150-grain plain-base bullets at 1050 to 1350 f.-s. m.v. should be used for 100-yard target practice or small-game shooting in safe country where ricochets do not endanger others. The 150-grain plain-base and gas-check bullets at 1350 to 1500 f.-s. should be used for similar outdoor purposes up to 200 yards. The 150-grain to 200-grain gas-check bullets at 1700 to 2200 f.-s. should be used for military target practices at 200 and 300 yards. Some of the most accurate loads in this group will serve this purpose up to 600 yards. For such game as deer any heavy gas-check bullet of 190 to 207 grains will be found effective at 1700 to 1900 f.-s. m.v. and at ranges up to 150 yards. For the lighter 169-grain gas-check bullet or for deer-hunting ranges up to 200 yards a powder load should be chosen to give 2000 to 2200 f.-s. m.v.

The special bore-riding, plain-base, Pope-type, Squibb-Miller bullet (of 168 to 172 grains) which is shallowly seated, is designed to be used at .22 Long Rifle velocities for indoor match shooting at 100 yards, but it will also serve well at 200 yards. The N. R. A. glance-proof bullet is designed for safe shooting of varmints at low gas-check velocities of 1700 to 1900 f.-s. up to 100 yards, and at top velocities of 2200 to 2600 f.-s. in its reformed R-3 shape for the same purpose up to 200 yards.

Sufficient lubrication must be used on lead-alloy bullets, for which many good brands of bullet grease are made. This is most important in long barrels, in which those inches beyond two feet of bore are sometimes left dry by exhaustion of the lubricant carried in the bullet grooves. Should this happen try another lubricant, because some are better than others, or add a base wad of graphited grease. When a star of expelled grease appears on the muzzle an adequacy of the quantity is indicated, though not necessarily of the quality. Performance is the best test. When accuracy is satisfactory and there is no leading, lubrication must be considered adequate in both respects.

Some shooters use zinc bullets without lubrication, but even here adequate lubrication is desirable. Zinc bullets are lighter than lead bullets of the same design. The Squibb gas-check weighs about 110 grains cast of zinc instead of the standard 169 grains when made of the usual lead-alloy. They are harder than lead-alloy bullets and have a higher melting point. Consequently they can be driven much faster. In .30-'06 rifles we have had fine accuracy with zinc bullets driven by heavy loads, but we always lubricate them to avoid plating the bore. The melting point of zinc is 419° Centigrade against 327° Centigrade for lead. It is stringy until red hot, and consequently it is much more difficult to manipulate and mold than regular lead-alloy bullet metal. Typical loads with the 110-grain Squibb gas-check bullet cast of zinc are: In the .30-'06, 23 grains of No. 80 or 42 grains of 4198. In the .30-40 Krag, 44 grains of 3031. This latter load develops over 3000 f.-s. in a 24-inch barrel.

* * * *

Safe Plinking. To those .22-caliber shooters who find it difficult to refrain from aerial practice on flying targets in dangerous areas I strongly recommend the crimped high-velocity shot-cartridge which contains from 120 to 130 pellets of No. 12 "Dust." In the special-bored Mo-Skeet-O .22 barrel, controlled by Routledge of Monroe, Michigan, this small charge will give effective 10-inch patterns at 45 feet from the muzzle, and the special .22 smooth-bore Mossberg Targo will do about the same. The short range of the light charge of tiny No. 12 shot makes such shooting safe in settled places where a ricocheting .22 bullet would be positively dangerous.

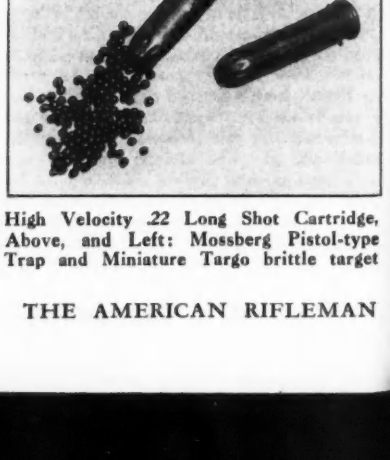
The ideal targets for these .22 short-cartridge outfits are the brittle miniature composition saucers of Mo-Skeet-O or Targo brand propelled by the special traps of both brands. Mossberg has a Targo trap which clamps to the gun barrel and is released by the front gun hand, as well as a separate pistol-type trap. The Mo-Skeet-O ground trap is arranged to throw singles or doubles at the operator's will. I learned last evening it was practical to sit or squat behind this trap with gun ready in the trigger hand and release my own targets with the other hand.

Many other brittle targets are suitable for these short-range .22 shotguns. When they are to be tossed into the air by the shooter or a companion, tin cans, paper boxes, shotgun shells, spent light bulbs, discs or balls of dried clay, small blocks or slabs of wood, chunks of coal or earth, etc., are all suitable. When so thrown, regulation "Blue Rocks" or "Western Flyers," designed as targets for Skeet and trap shooting, can be broken regularly. These latter targets are also vulnerable to the Mo-Skeet-O shot charge from the regulation No. 8 position in Skeet.

Even those handgun enthusiasts who do not already own a .38-40, .44-40 or .45 Colt smooth-bore revolver and shot-loading equipment can now get any cheap long-barrel .22 revolver, in new or worn condition, smooth-bored for the .22 shot cartridge by Wright's Gun Shop of Bloomsburg, Pa. Kenneth Wright guarantees average patterns of 8 inches spread at 20 feet, and most of his 8-inch barrels and many relined 6-inch barrels do slightly better than that. He rebarrels some of them and relines others.

The 9-shot double-action .22 revolver which he fixed up for my test, with an 8-inch smooth-bore barrel, was tried by Wright with Sta-Klean Kopper Kote shot cartridges. At 15 feet it put from 91 to 103 pellets in a 6-inch circle and 70 to 78 in a 3-inch circle. At 20 feet, the count in an 8-inch circle was 64 to 88 pellets. At 24 feet there were 68 hits in a 6-inch circle, and 104 pellets in an 8-inch circle at 25 feet.

When this .22 shot-revolver arrived, I found it had a round bead on the muzzle like that of a shotgun. Inside the barrel I



High Velocity .22 Long Shot Cartridge, Above, and Left: Mossberg Pistol-type Trap and Miniature Targo brittle target

thought I could detect faint indications of a choked muzzle; the bore appeared to be very smooth. I did not like the fact that this revolver could not be thumb-cocked because it had a very long, hard and unreliable double-action pull. It took considerable preliminary practice that same evening to learn how to control that hard uneven pull, but finally I was hitting small flying targets regularly and wound up by making the only double attempted.

I used Remington Hi-Speed Klay Bird shot cartridges. The first shot from the clean chamber and barrel at 15 feet landed four inches below aim in a 6-inch pattern. The next shot, at 20 feet, landed five inches low and made a pattern of 8 X 6 inches. Five more patterns were made at 20 feet with an average impact of 4.7 inches below aim, and the average spread was 7 X 7 inches. The smallest pattern was 5½ X 6 inches. The two cartridges remaining in the 9-shot cylinder were fired at 30 and 40 feet. At 30 feet the impact was 7 inches below aim and the spread was 8½ X 8½ inches. The 40-foot impact was 9½ inches low and the spread was 10 X 12 inches. One flying tin can was penetrated near the muzzle; others on one side only, all within six feet.

Practical purposes to which these .22 shot arms may be put, outside of training and sport, are pest control and bird collecting. Field collectors for museums should find them very useful for obtaining specimens with minimum damage. Ordinary folks can kill, at short-range, such pests as English sparrows, common Starlings, snakes, rats and other rodents. Wright's .22 shot pistols are used by fishermen for killing snakes along small streams and by his fellow townsmen for killing rats in the local dump.

* * *

Match Handloads. In these days it is handload or "no shoot," at times. There have been appreciably more "alibies" on account of some of this handloaded .38 Special stuff. The rules allow only one alibi per 5-shot string and the temptation might be to unwisely risk a stuck bullet when the second failure occurs, but usually another alibi is claimed instead, and which, of course, cannot be allowed. This suggests extra care in loading match stuff.

Select good cases, good primers and bullets. See that the case webs are O.K., the flash holes clear and the pockets clean. Then seat the primer to the bottom of the pocket but without crushing the pellet or mutilating the cup. It is an exact job. Primers must not protrude and they must not jar loose and back. If they seat too easily in certain pockets reject such cases and load them only for practice shooting. Check each powder charge, by frequent check-weighing, by visual inspection in the block and recheck with a wooden-plug depth gauge when any of them appear abnormal.

Seat your bullets to the correct depth and crimp shell mouths into them uniformly. If some cases stretch from firing shorten them to standard length in a shell trimmer, or you cannot keep your crimp and chamber-seating uniform. Keep bullet grease out of your powder charge. Finally, try your match loads in all chambers of your target revolver for proper fit before you seal them in their box labelled for competition shooting. Do this and you will need no alibi runs, providing your gun is normal as to mechanical ignition.

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TRADE DOPE

Martin B. Retting of Shokan, New York, has issued his latest price list of arms, ammunition, accessories and ordnance relics. It is dated, July 1942, and may be his last list for the duration. There are 550 rifles, shotguns and handguns of collectors' type and some of shooting type in addition to relics of the last World War. There are sections on accessories, tools, ammunition, swords, bayonets, daggers and native weapons, manuals and books.

* * *

Far West Hobby Shop has sent in their special lists No. 38 (of March and April) and No. 39 (of June, July and August) covering arms of all types for collectors and some for gunsmiths and shooters. In addition to firearms there are cutting and sticking weapons of many types. In short, there are 62 full pages in list No. 38 and 58 pages in the latest list, all 8 x 11 inches and all crammed with "bargains."

* * *

Houghto-Black, a new commercial blueing method, has been developed and announced by E. F. Houghton & Co. of Philadelphia. It is a heat-bath or controlled-temperature method suitable for large pieces or small parts. Literature and quotations are available at the address given.

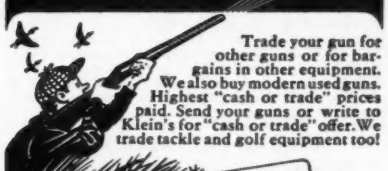
* * *

H. P. Bell has left his Cambridge gun shop for the duration. After his present war job is ended he hopes to resume his gunsmithing in a better-equipped shop.

* * *

Shop Instruction. South Bend Lathe Works, of South Bend, Indiana, have available some very useful apprentice training helps in the form of booklets, books, charts and movies. These cover "Lathe Operation," "Thread Cutting" and "Grinding Cutter Bits," none costing more than two bits. The 16-mm. sound films in colors are available on a free loan basis. There are also "Shop Wall Charts" and blueprints in a series of 40 and a "Project Book" comprised of a course of a dozen graded projects. It would pay anyone who has an apprentice training problem to put in his application for these useful helps by writing to the above South Bend firm.

TRADE GUNS!



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25/20 Winchester S.S. black powder Win.....	2.00
9 m/m Luger, metal case or mush. Win.....	4.85
30-03 Gov't for 95 Win., etc. non-corrosive S. P.	6.75
308 Savage metal case bullet, Stayniess.....	4.50
30 Remington metal case rimless Kleanbore.....	4.00
303 British Mark VII Pointed.....	5.50
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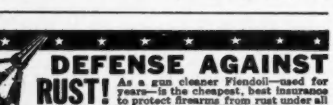

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Collapsible Target Butt. The Norberg Plumbing and Appliance Co. of Allerton, Iowa, has submitted a folding metal target holder which supports a folding frame designed for standard N. R. A. small-bore competition targets. This frame is of wood provided with holding clips. The stand is of iron piping of gas-pipe size. The wide-spreading base arms are bent straight down to form the several legs which are sharply pointed so that they may be thrust into the ground for added rigidity. It is conveniently carried and set up, but it is not as rigid against sway and quiver in the wind as the regular four-post small-bore tournament butt. The only other criticism is the possibility of ricochets from the iron piping. The firm allows a discount to rifle clubs on half-dozen lots.

* * *

R. F. Sedgley, Inc., have prepared a neat little, pocket-size, instruction manual on the care and cleaning of Model-1903 rifles, the .30-'06 Springfield. It is intended for purchasers of these Sedgley Service-type rifles.

* * *

Roslyn Gun Shop, whose proprietor is Thomas Woroniecki, has issued an illustrated catalog (No. 1) on old weapons of war, military equipment and other firearms and edged weapons. Buttons, insignia, cartridges, curios and antiques are also illustrated and also listed are medals, coins and stamps. The price of this 46-page (5½ X 8½ inches) booklet is forty cents. The address is 1029 Northern Boulevard, Route 25-A, Roslyn, Long Island, N. Y.

* * *

E. L. Rice, of Krag peep-sight fame, now has one for the as-issued Model-1917 rifle. His illustrated circular shows such interesting items as a simple, spring-type, adjustable, barrel band and a barrel-receiver fillet for Krag rifles. He also shows his neat pistol-grip caps and Springfield Sporter buttplates, both cast of aluminum.

* * *

Accurate Reloads. In a number of recent editorials in the RIFLEMAN in connection with your tests of the accuracy of various rifles and loads, you mention the size of five-shot groups. You have also frequently mentioned very small groups made with reloads and numerous articles have appeared in the RIFLEMAN during the past few years which would lead one to believe that it was a very easy matter to prepare reloads that would group in 1½ inches or less at 100 yards and 3 inches or less at 200 yards.

I should like very much to know whether you feel that five-shot groups are a reasonable measure of the accuracy of a rifle and also as to how reloads can be prepared which will give average groups of anything like 1½ inches at 100 yards or 3 inches at 200 yards. I am not asking these questions in the spirit of criticism as I find that there is always something new to learn about the shooting game.

I have been reloading ammunition off and on ever since about 1906 when I bought my first set of Ideal reloading tools for the .32 Winchester Special. During the past ten years I have reloaded many thousands of cartridges for the .30-'06, .25 Remington .25 Roberts and others, and have found many reloads that were entirely practicable. In fact, I have derived a great deal of pleasure and profit from reloading and expect to continue it as long as I am able to use firearms. However, I have never been able to produce reloaded cartridges that would consistently shoot into about 1½ inches at 100 yards or about 3 inches at 200 yards. During recent years I have used Belding and Mull or Pacific tools but have no special apparatus for choosing bullets by spinning, etc. I have used practically every available suitable bullet, primer and powder for the above mentioned calibers and reload with what I know to be more than average care.

I have no machine rest available but shoot from a rest with which I am able to secure accuracy approximating that mentioned above with the M. 54 Winchester Hornet and Western factory ammunition, and the Remington-Roberts 30-S rifle with Remington factory ammunition.—H. L. H.

Answer: Your letter is the very first criticism we have received of our small groups as reported in the Dope Bag columns. However, we have had several criticisms of the same groups on the basis of their being too large and not worth publishing, with many suggestions for improving our results. It just goes to show how varied are the experiences of shooters, when one experienced shooter will say they are too large to be representative and others say they are too small to be representative. I am glad to say, however, that most of our members report that they get the same results as we get, while they cannot get the fine results reported by some other writers.

I believe that if you study the Handbooks and read the magazines and try out the various suggestions for improving accuracy in your reloads that you will eventually obtain an appreciable improvement approaching what you are after. With an unknown combination we often get very poor results to start with, but eventually get very good groups with the combination after we have eliminated one-by-one the little faults as they are discovered from time-to-time. I want to ask you if you carefully clean all your primer pockets and are careful about the fit of your primers, about the location and size of the flash hole in the bottom of the primer pocket, about the condition of your cases, the thickness of the neck wall, and the uniformity of neck tension on the bullet, and the proper overall length for each different bullet and even for each different lot of the same bullet so that it will just touch the throat of the rifling when the action is closed without bearing against it with any pressure at all which might serve to change the seating depth of individual loads.

I will add one thought, and that is that a good bullet is the most important single component for making good groups. In shooting the most important thing is to start that bullet right. Then, each succeeding bullet must be the same as its predecessor, and it must be started on its flight the same as all others fired in the same group, in an accurate rifle, to insure accuracy.

THE ARMS CHEST

The Arms Chest is an open market trading post where manufacturers, distributors, purveyors of professional services, and our own readers may cry their wares to fellow sportsmen at a modest cost. Returns are uniformly excellent—scores of advertisers have reported truly phenomenal results.

Advertisements are accepted from annual and life members of the National Rifle Association, *for personal transactions exclusively*, at 8¢ per word INCLUDING NAME AND ADDRESS, minimum charge $1.20. For all *commercial* advertisements the rate is 10¢ per word INCLUDING NAME AND ADDRESS, minimum charge $1.50.

Groups of figures are computed as one word. Spell out all descriptive words; abbreviations may lead to serious misunderstandings and thus impair the effectiveness of your ad. Box number or blind ads will not be accepted. Please give your *complete* name and address, so as to facilitate the proper issuance of money-orders or checks, and to insure the prompt delivery of all mail or telegraphic replies. All advertisements *must* be accompanied by cash. Final closing date is the 5th of the preceding month. *Please print all advertisements plainly*—we cannot be responsible for errors due to illegible writing.

In describing the *condition* of guns advertised these standard phrases must be used: *Perfect* means factory condition. *Excellent* means new condition, implying negligible amount of use. *Very good* means practically new condition, implying little use, resulting in no appreciable bore wear and only minor surface scratches or wear. *Good* means moderate use with some finish worn off, only moderate bore wear with no pits and nothing worse than a little roughness in the bore. *Fair* means reasonably hard service, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting. *Poor* means marred appearance and pitted or badly worn bore.

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A quick, inexpensive medium for disposing of guns and accessories no longer needed, or for the purchase of more suitable similar items. We urgently request that a full description be given of every article offered, and its *condition* (see complete instructions above), for transactions of this sort must be based entirely on good faith and mutual satisfaction. Deliberate misrepresentation will of course result in immediate expulsion from N. R. A. membership.

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LEFEVER TRAP MOD. 3, AUTOMATIC ejector, full choke, 32", ventilated rib, perfect, $30.00 or will trade, and pay difference for excellent Camp Perry 10" barrel. Dr. H. E. Henry, Martinsburg, Penna. 8-42

FOR SALE: SPRINGFIELD NATIONAL MATCH, #1312462, as issued, perfect inside, excellent outside, sling, rear sight cover, $70.00. Money order only. Satisfaction guaranteed or money refunded. Harry Jackman, 286 Fisher, Grosse Pointe Farms, Michigan. 8-42

BRAND NEW WINCHESTER #94, 30-30 Cal., $41.00. Marlin Model 36, 30-30 Cal., $37.90. Winchester Model 70, super grade, $125.00. Winchester Model 52, 93B 17A sights, $69.95. Remington Field Master, 22 Cal., $34.95. Winchester Model 62, 22 Cal., $32.55. Slightly used, Springfield, Sedgley cut down Sporter, stock rebored for 303 British, $45.00. Passon, Inc., 507 Market Street, Philadelphia, Penna. 8-42

FOR SALE: BROWNING O. & U. Lightning, 12-28, I. C. & M., inside excellent, outside very good, $65.00. Dr. H. H. Adams, Auburn, California 8-42

.38 COLT P. P., EXCELLENT, $26.50. H. & R. .38 Tip-Up, excellent, $14.75. Dreyse .32 Tip-Up Automatic Pistol, $14.50. Remington Double Derringer, nickel, $15.50. "1762" Musket, relic, $9.75. Lot 6 nickel Revolvers, $17.50. Springfield (Krag 30-40) Target Repeater, $21.00. Springfield 45-70, $4.75. U. S. (Old) Sword, $3.50. Terms: F.O.B., P. O. M. O. Robert Lober, 55 Garden Road, Scarsdale, N. Y. 8-42

HISTORIC PISTOLS: GEO. III FLINT-lock long Navy pistols with Belt hooks from the Castle Collection, sold for the British Government. Used in Revolutionary War and at Trafalgar. 20" long, brass trimmed bright and clean, extremely decorative, and in shooting order. While they last, $19.50 each. Kimball Arms Company, 20 Cambridge Road, Woburn, Mass. tf

FOR SALE: GOOD COLT 45 NEW SERVICE, 7½" barrel, bore excellent, with shoulder spring holster, $25.00. Lightning Colt 41 "Frontier", good, $12.50. A. D. Aspegren, Burr Oak, Kansas. 8-42

COLT ACE, V. G. TO EXCELLENT, SHEEPSKIN zipper case, $45.00. Austrian 8mm straight-pull carbine, $15.00. Star-gauged Springfield Service, primers, powder, sight mike, empties, bullets, $48.50. C. L. Hennig, 4220 Cuming, Omaha, Nebraska. 8-42

FIREARMS FOR COLLECTORS. PRINTED illustrative catalog #7, 1,100 items, $1.00. Large descriptive list 20¢. Far West Hobby Shop, 406 Clement, San Francisco, Calif. 9-42

1942 MODEL WINCHESTER 52 H. B., MARKSman No. 1 stock, excellent condition, used very little, no sights, sacrifice $55.00. E. Fillmore Irwin, Deputy Treasurer Norfolk County, Portsmouth, Va. 8-42

SMITH 20 DBL. 26" SKEET BORING, SINGLE trigger, ejector, (new), $85.00. Smith 12 open-mod. 28", (new), $50.00. Ithaca 20 Mod.-full, 26", A-1 condition, $35.00. J. C. Hooker, Harrisburg, Ill. 8-42

KILBOURN-HORNET. DEADLY ON chucks and crows. 3,000 F.P.S. velocity with 45 gr. bullets, 2,900 F.P.S. with 50 gr. Your Hornet rechambered, $5.00. Magazines altered for long bullets. Winchester, Savage, $2.00. Lysle D. Kilbourn, New Hartford, N. Y. tf

WINCHESTER 257 ROBERTS MODEL 70 WITH Tilden safety, strap, case, and 4X Hensoldt scope, Redfield mounts. Excellent condition, like new, $185.00. 215 shells, 5¢ to purchaser. Richard Crump, 4227 Concho, Dallas, Texas. 8-42

REMINGTON 37, LATEST, PERFECT, $70.00. Zeiss Binoctar 7 x 50, $125.00. .38 Super, excellent, $45.00. N. M., new, $45.00. Will trade either of latter for a new Ace. Also want new or perfect 1917 Enfield. Harry Dodge, 631 Merrick, Detroit, Michigan. 8-42

ISSUE KRAG, GOOD, 1700 ROUNDS AMMUNition, $35.00. Brand new Remington 121 Fieldmaster .22, $32.50. Factory H. & R., U. S. R. A., 7½", extra grips, $32.00. Winchester S. S. .22, new, $10.00. Winchester "Steelbilt" .410, $10.00. Western Arms new 20 Ga. Double, $25.00. American Arms 12 Double Hammer, smokeless barrels, $15.00. Issue Springfield, cut to 18" barrel, extra barrel, $25.00. Colt .45 S.A.A. 2 bbls., 600 rounds, $60.00. Colt .45 Auto, about 300 rounds, $40.00. Colt .38 Navy Auto, 250 rounds, new holster, extra clips, $40.00. Browning .25 Auto, new holster, 150 rounds, $15.00. 250 rounds .32-20, $12.50. 100 rounds .38-40, $5.00. Stamp please. W. M. Abbott, Box 185, Wilton, N. H. 8-42

FACTORY SECONDS RECOIL PADS $1.00, postpaid. Complete with screws for attaching. You save $2.25. Send outline of gun butt. Prompt delivery and satisfaction guaranteed. Incor Mfg. Co., Terminal Bldg., Youngstown, Ohio. tf

FOR SALE: BAYARD .380 AUTOMATIC, OVERall length 4¾", extra clip, practically new condition, $25.00 cash. Kent V. Gay, 547 Clay St., St. Charles, Mo. 8-42

.35 AUTO S. & W., BLUE, PERFECT, BOX shells, $25.00. 7.65 Auto Ortgies, blue, new condition in and out, $15.00. .25 Auto Colt, blue, pearl, late model, new condition, $22.50. .38 S. & W., nickel, top break and side lock, pearl grips, 5" barrel, excellent to perfect, $25.00. .41 Derringer, very good, box shells, accurate, $10.00. .38 S. & W. 2" barrel, fine reblue, excellent condition, very accurate, shoulder holster, box shells, $22.50. .44 Remington C. & B., good to very good, bore perfect, right grip ½ missing, $14.00. .218 Winchester 65 Bee, 24", factory new, fired 3 boxes, $47.50. Money orders or C.O.D. only, please. C. E. Conrad, 220 So. Pleasant, Independence, Mo. 8-42

FROM BERNARD W. LEAVITT ESTATE. 1886 Winchester Repeater case hardened half magazine 24 inch bbl. 45-70. Standard rear, ivory bead front sight. Shotgun butt. Excellent. $35.00. 1886 Winchester Repeater 38-56. 26 inch bbl. octagon. Factory sights. Perfect. Reloading tool. $37.50. 1897 Winchester Trap Grade Shot Gun Model 12 gauge 30 inch full choke bbl. Fancy wood. Perfect. $55.00. Nellie B. Leavitt, Bradford, Vt. 8-42

.12 GAUGE REMINGTON AUTOMATIC, MODEL 11-D, Tournament Grade, 28" full choke, 26" modified, very good out, excellent in, lists $189.00. Leather case included at $75.00. One owner only. WANT—9mm Luger 4", perfect inside, excellent out. Not made for shoulder stock and dated not later than 1916. Will trade .38 Military & Police for .45 Smith & Wesson 1917 Commercial Model. B. R. Gardner, Life Member, Salyersville, Ky. 8-42

.357 S. & W. MAGNUM 5½", BUCHANAN short action, tuned and velvet smooth, Bisley hammer, Roper plus regular grips, excellent. 500 Magnum nickel cases, primed, 6400 primers, 4 canisters Bullseye, 75 factory loads, Pacific bench tool, resizer and seating dies, Pacific scales, 110 and 158 grain moulds, Potter's electric melting pot. No articles sold separately. Money order only. $130.00. 52 Bull Gun, Marksman stock, Wittek front, Vaver 35 Mielt rear, sling. Perfect. $85.00. No trades. H. Beauchamp, 1505 N. 21st St., Salem, Oregon. 8-42

ONE SPECIAL BUILT VICKERS TARGET 22 Cal. long rifle, heavy barrel, custom stock checkered, perfect inside and out. This gun will shoot all X's if you can hold them. If you live close by come and shoot it yourself. With metallic sights, $95.00. One Eric Johnson 1⅛" barrel 8 Lands, 22 Cal. long rifle, Winchester action, very good in and out, custom stock, Vaver sights, this gun groups very tight at 100 yds., $85.00. No telegrams. G. York, R. R. City #6, Willoughby, Ohio. 8-42

WINCHESTER MODEL 70 R-2 LOVELL, PERfect with cases, primers, bullets and dies. Details upon request. T. W. Hoopes, P. O. Box 634, Richmond, Ky. 8-42

SPECIAL PRICES! LYMAN, REDFIELD, King, Marbles Sights. H. & R. M/922, $13.45. Winchester M/94 Carbines, $41.00 Prepaid. Pachmayr Revolver Grips, $1.50. A-1 Gov't. Slings, 50¢. Swivels, 35¢. Gov't Oilers and Cleaners, 29¢. Bargain Fishing Tackle and Archery Catalog Free. Large Illustrated Medal-Award Catalog, 10¢. Lyman Reloading Tools, $5.50 Prepaid. Warshal's, First-Madison-BB, Seattle, Wash. 8-42

HUNTING SEASON JUST AHEAD!

Recent reports from the Department of the Interior show near-record gains in the "population" count of both upland game and waterfowl.

To date there has been no indication of any special restrictions on hunting this fall, and there seems to be ample ammunition still available in most calibers and gauges.

But new *guns* are becoming mighty scarce. If you have any extra "used" equipment you don't really need, we suggest it be offered to some deserving fellow sportsman—of course, thru an ad in ye old "Arms Chest"!

Closing date for the September issue is August 5th. See full instructions above.

Have You Moved?

Remember your postmaster cannot forward your RIFLEMAN unless you leave him "forwarding postage". Remember, too, to give us at least 30 days notice *before* moving. Always state your old address as well as the new one. Mail changes to the N. R. A., 1600 Rhode Island Avenue, Washington, D. C.

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.380 COLT AUTO, PERFECT, $30.00; .32 S. & W. Auto, excellent $30.00; .45 Auto, new barrel, outside very good $42.50; .303 Short Lee Enfield, shortened issue stock, bore excellent $20.00; Mortimer Flintlock pistol $18.00; .30 Remington M. C. ammunition, $5.00 per 100. E. Thomson, 23 Pinckney, Greenville, S. C. 8-42

COLT WOODSMAN, 4½ IN., EXCELLENT, $37.50; Colt O.P. 38 Sp., Heavy barrel, excellent, 6 in., some holster wear, Pearl Grips, $42.50; S. & W. 38-44 H.D., 38 Sp., Perfect, 5 in., factory carton, $47.50; Colt 45 Auto, Army, reblued, good, $27.50; S. & W. M. & P., Excellent, reblued, 6 in., Handmade grips, $37.50; Colt 1849 C & B., .31 cal., reblued, shooting order, $12.50; Colt (relic) .30 cal., R. F., nickeled, $3.50; Colt (relic) .22 cal., brass, open top, $3.50; Winchester Model 92, 25-20, Excellent in, Good out, Ideal tool and mould, 50 reloads, $25.00; Winchester Model 86, 45-90, Fair in, reblued, $20.00; Ithaca 12 gauge double, 30 in. for 3 in. shells, Excellent auto ejectors, $35.00; Winchester 97, 12 gauge, solid frame, new barrel, reblued, $27.50; Remington Auto, 12 gauge, 30 in., Inside Excellent, Out Good, $45.00; Winchester Auto Model 11, 12 gauge, 30 in., Inside Very Good, reblued, $35.00; Savage Model 23B, 25-20, Excellent, $22.50; Cash or C. O. D.; ¼ cash with inspection at Express Office. Send permit if needed. F. W. Caauwe, 1218 North 1st, Norfolk, Nebr. 8-42

32-40 BALLARD, 30" ½ OCTAGON BARREL (excellent) with extra 30" octagon 22 Zischang barrel (slightly pitted), double set trigger, checkered stock and forearm with cheek piece, Swiss buttplate (not Schuetzen) windgauge front sight with spirit level, midrange Vernier rear sight, $55.00. Kirkwood Bros., Inc., 23 Elm Street, Boston, Mass. 8-42

WINCHESTER MODEL 63, FACTORY GREASE, Lyman 1-A fitted, sheepskin case, $45.00. William Biles, 3051 Idaho Avenue, N. W., Washington, D. C. 8-42

PARKER VH, 12 GA., 32 INCH, F-F. GOOD. $50.00. Consider trade. A. T. Mickle, R-4, Madison, Wisconsin. 8-42

OFFERED BY WILSON. SAVAGE AUTOmatic, 12 ga. Cutts Comp. Ex. $57.50. Winchester 12, 12 ga. Weaver choke, good in fair out, $40.00. 8mm Mauser Sporter, V.G., $22.50. L. C. Smith 12 Ga., DB, SST, AE, 28" FF, excellent, $60.00. Parker PHE 12 ga., 28" FF, $65.00. Ithaca 20 Ga., No. 2, auto ejectors, 26" MF, excellent, custom stock, $75.00. Parker GH, 12 ga., reconditioned at factory, new barrels, new condition, 28" MF, straight stock, $125.00. Fox Sterlingworth 12 ga., excellent, $35.00. We will accept guns in trade. Write for new list. Stamp please. Wilson's, 3082 West 25th Street, Cleveland, Ohio. 8-42

COLT BISLEY, 44 SPECIAL, NEW 7½ SINGLE action barrel, excellent throughout, blue, $50.00. Lefever 12-28" M. & F. nitro special, perfect, never fired, $40.00. W94, 32-40, 26" octagon, very good, bore perfect, box Kleanbores, $20.00. H. & R. .10 single 36" full re-enforced breech, excellent, $12.00. Purvis Mann, Milner, Ga. 8-42

GENUINE FLAT-TOP COLT FRONTIER, REbuilt by Colt, new 38 Special 7½" barrel, cylinder and all parts. Stag stocks, $75.00. New 280 Dubiel, circassian stock, 330, Redfield Jr. mount, tools, 100 cases and primers included, worth $350.00, sell for $200.00. 30-06 Mauser full ribbed half octagon barrel Commercial action, hinged floor plate, Express sight, bolt altered for scope, $60.00, no stock. Magnum Mauser action and barrel, 300 or 375 H. & H., new, $90.00. 330 Weaver, new. Pacific tools for 30-06, 220 or Hornet. Ideal micrometer powder measure. B. R. Polley, 1100 Melbourne Ave., Dallas, Texas. 8-42

REVOLVERS AND AUTOMATICS. WRITE for Bargain List. Lee Sales, R-35 West 32nd Street, New York. 8-42

22 H. & R. SPORTSMAN, 45 COLTS S.A., 45 Automatic, 30-30 Winchester, 30-30 Savage, 20 Ga. Over and Under, size 38 10X coat. WANT—Complete Reloading Equipment, 22 Automatic, Vaver rear, cash. Frank Sorelle, Z-Barr Ranch, Jayton, Texas. 7-42

FOR SALE—REMINGTON ENFIELD, LYMAN 48, remodeled and checkered issue stock, excellent, $30.00. 30 inch Krag, good, $17.50. Laurence George, Plainfield, Illinois. 8-42

GERMAN O&U, VERY GOOD, BEAUTIFUL, Cost $600.00, Made for Bish Crawford Saint Louis Shooting Park, 12-32-AE Full 14½, Miller Single Trigger "fast", wonderful shooter $200.00. Also Winchester Model 12-12 Skeet BBL with 5 Weaver Choke Tubes For Model 12, Except Vent Rib, $35.00. W. H. McCreery, La Junta, Colorado. 8-42

.45 NATIONAL MATCH COLT, FACTORY PERfect, hand-covered custom wood stocks, standard sights, $75.00; .45 Colt Government Model Automatic, factory perfect, $60.00; .38 Super Colt Automatic, factory perfect, $60.00; Remington Gamemaster, .35 Rem., factory perfect, $78.50; Colt's single action frontier, 44-40, factory perfect, $45.00. M. L. Bedwinek, 20 Summers St., Charleston, W. Va. 8-42

S. & W. 38 SP. M.&P. 5" X 6", $40.00 EACH; Mauser Auto's 9 M. M. Military & Stock, new, $65.00; another 30 cal. Police, $40.00, 32 Cal. $18.00; 45 A.C.P., $40.00; Lugers 9 M. M. 8" and Holster $45.00, another 3½, $30.00; another $20.00 and 30 cal. 3½, $30.00 Holster, Stevens 22 S. S. Target 6", $10.00; Colt N.S. 44-40, 4½", new, $40.00; Spanish 38 Sp. new, $15.00; Savage 380 Auto, $20.00; Ortgie 32 Cal. Autos, $20.00 and $18.00; Ross Rifle 303 Altered Stock, $25.00, Sling. Money refunded if not satisfied. M. A. Hollander, 3947 N. Clerose Circle, Cincinnati, Ohio. 8-42

250-3000 MODEL 54 ALTERED BOLT, SLING and pacific rear sight, outside, very good, inside excellent, very accurate. Lyman tools with full length sizing die. 700 primers, 3 lbs. powder, 300 60 gr. jacketed, 50 86 grain, 35 factory loads, 87 grain and 100 grain 15 empties, Price $75.00. Malcolm B. Gott, 18 Capitol St., Auburn, N. Y. 8-42

.30'06 SPRINGFIELD NATIONAL MATCH, 1,497,179, excellent, $57.50. 7 m/m Winchester 70, excellent plus, $85.00. Many .22 rifles, $6.50, $16.50. Krag "as issued", very good bore, $22.50. Genuine Krag Carbine, very good bore, $25.00. .28 H&R single, $9.50. New List 10¢. Karl Hansen, 188 Main, White Plains, N. Y. 8-42

SWISS MARTINI ACTION, SCHUETZEN TRIGgers, prone stock, $40.00. Large Rifle primers for small. Harold Parker, 4115 Rookwood Ave., Indianapolis, Ind. 8-42

IDEAL POWDER MEASURE $6.50; IDEAL Star Crimper, 12 ga. $3.50; also 20 gauge $3.50. Stevens 22 Pistol 8 in. Barrel Poor, $5.00. Harvey Randall, 152 Elmer Avenue, Schenectady, N. Y. 8-42

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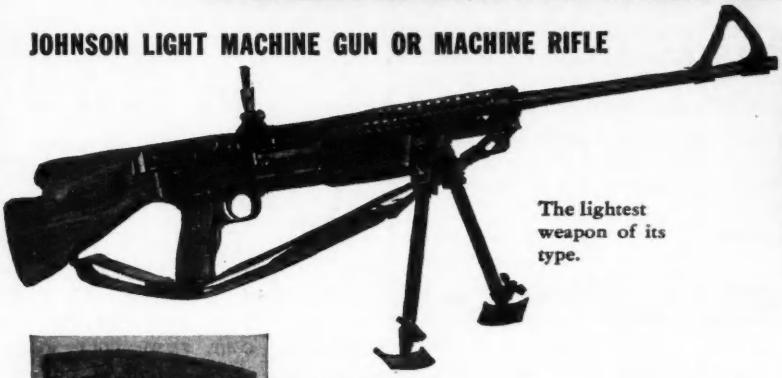

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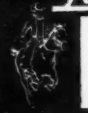

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MANNLICHER-SCHOENAUER CARBINE 9mm. (100) Kleanbore. Accessories. Perfect. $115.00. Winchesters: #70 Hornet. #54 R2 Lovell. #75 Target. #53 25-20. #24 12 Gauge. .22 Hi-Wall. Savage: 23 32-20. Utility 30-30 12 gauge. Stevens: 410 O-U. WANTED—Savage 99 250. 70 '06. Binoculars. Spotter. E. Keltner, 1505 Leland Ave., Bronx, N. Y. 8-42

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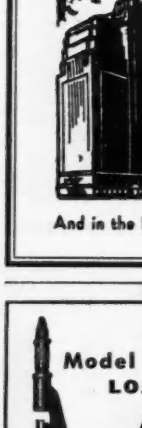

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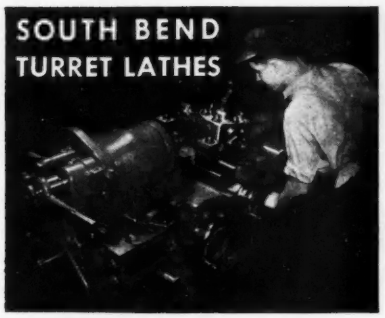

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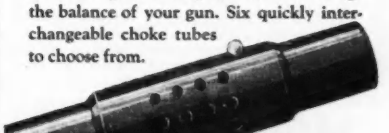

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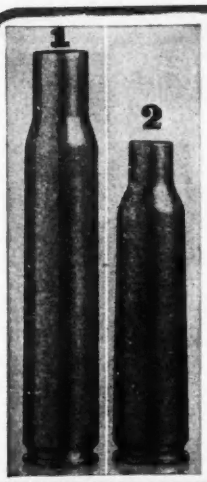

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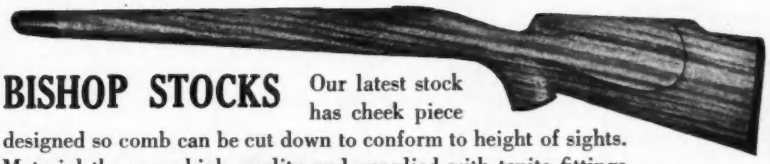

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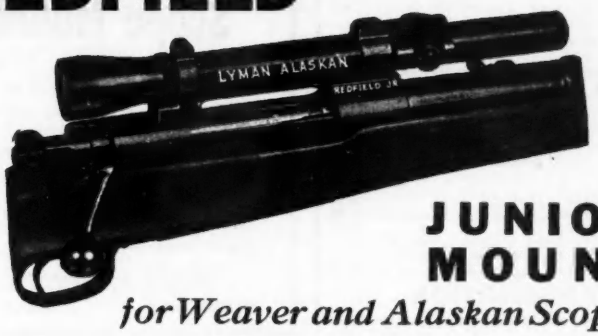

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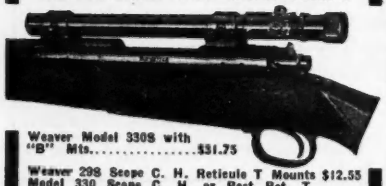

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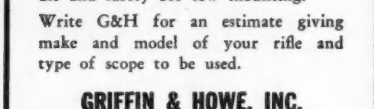

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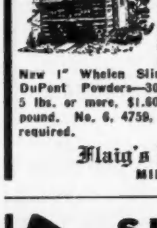

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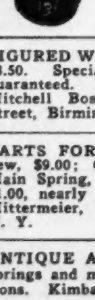

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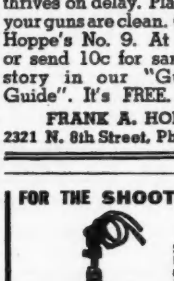

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